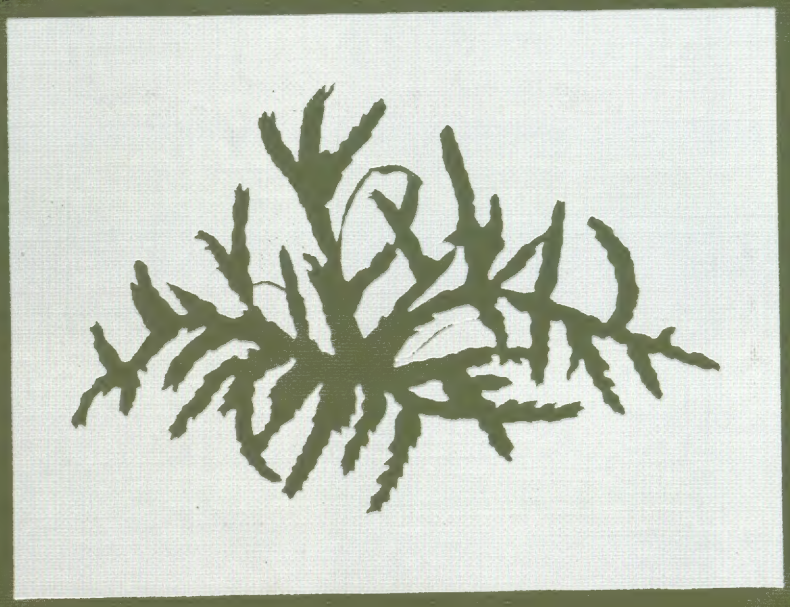
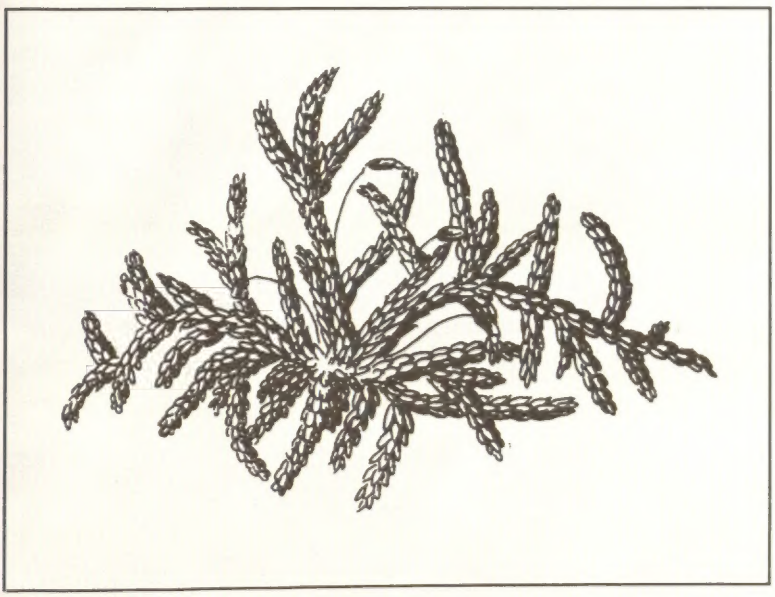
Index of Mosses 1963-1989



Missouri Botanical Garden

Index of Mosses 1963-1989



Missouri Botanical Garden

REF
QK1
.M833
1992
v.42
c.3

Index of Mosses

a catalog of the names and citations for
new taxa, combinations, and names for mosses
published during the years 1963 through 1989
with citations of previously published
basionyms and replaced names
together with
lists of the names of authors of the names
and
lists of names of publications used in the citations

Marshall R. Crosby
Robert E. Magill
Cheryl R. Bauer

Missouri Botanical Garden

MONOGRAPHS IN SYSTEMATIC BOTANY
FROM THE MISSOURI BOTANICAL GARDEN

Volume 42
Published in June 1992 in an edition of 600 copies.

ISSN 0161-1542

Authors' addresses:

Missouri Botanical Garden,
P. O. Box 299, St. Louis, Missouri 63166, U.S.A.

Cheryl R. Bauer's present address is Anheuser-Busch, Inc.,
1 Busch Place, 36-5, St. Louis, Missouri 63118, U.S.A.

The cover and title illustration is from plate 40, figure 46: a of the 1811 (Edinburgh) edition of *Historia Muscorum*, J. J. Dillenius (TL-2: 1472*), depicting "Hypnum cupressiforme rotundius, vel Illecebræ æmulum. *The Cypress- or Stonecrop-like Hypnum.*" This moss, now known as *Bryoandersonia illecebra* (Hedwig) H. Robinson, was named for Lewis E. Anderson, to whom this *Index of Mosses* is dedicated on the occasion of his eightieth birthday.

Copyright © 1992 by Missouri Botanical Garden.
All rights reserved.

Table of Contents

Preface	1
Acknowledgments	2
Introduction	3
Index of Mosses, 1963-1989	13
Authors Cited in the Index	603
Publications Cited in the Index	621

Preface

Index of Mosses is a guide to newly published nomenclature (nova) for mosses appearing from 1 January 1963 through 31 December 1989, with the addition of some items from earlier years that have not been listed in other indexes, especially *Index Muscorum*. Thus it differs fundamentally from earlier indexes, for example, Jaeger and Sauerbeck's *Genera et Species Muscorum*, the two editions of Paris's *Index Bryologicus*, and Wijk, Margadant, and Florschütz's *Index Muscorum*, all of which attempted to both catalog nomenclature and indicate taxonomic disposition of names. Early in the project we decided to restrict coverage to nomenclature because of the lack of stability of taxonomic opinions over short periods of time (Crosby, 1977). Users must keep in mind that they will not find taxonomic synonymy listed in *Index of Mosses*. A synonymized data base of the approximately 57,000 specific names that have been applied to the estimated 10,000 species of mosses is being constructed at MO and will result in the publication of a world checklist of mosses. Although *Index of Mosses* does not catalog taxonomic opinions, it does reflect our interpretation of the *Code*, and users may disagree with some of our conclusions.

Index of Mosses began as a supplement to *Index Muscorum*, and six installments were published (Crosby, 1977, 1979; Crosby & Bauer, 1981, 1983, 1987; Bauer & Crosby, 1986). The first "Index Muscorum Supplementum" covered the calendar years 1974-1975. A separate supplement for 1 January 1963 through 31 December 1973 was planned, and compilation was begun by W. D. Margadant, the surviving editor of *Index Muscorum*. With Margadant's retirement from muscology, the supplement was never completed. A copy of Margadant's card file was made for us, and we occasionally used it as a reference tool. However, we compiled the *Index of Mosses* by extracting the listings of nova in the Recent Literature on Mosses series in *The Bryologist*, supplementing that from many other sources, and checking all names against the original literature.

When the *Index of Mosses* was begun in 1974, the goal was to produce camera-ready copy from electronically stored information, bypassing the time- and money-consuming, error-introducing but time-proven process of setting type from manuscript, correcting proofs, and finally producing the printed product. This *Index* has nearly achieved that goal. We derived the information provided from a much larger data base of information about mosses, part of the TROPICOS data base at the Missouri Botanical Garden. The TROPICOS system partially formatted the information and inserted codes that were used to finalize formatting, using the WordStar word-processing program. But, the TROPICOS data were not quite perfected before the final "dump," and some corrections were made to the file after it left TROPICOS. Certainly errors of commission and omission remain. We would appreciate having these pointed out to us, so that we can correct the data base and improve the next *Index*.

Acknowledgments

National Science Foundation grant DEB 76-90722 to the Missouri Botanical Garden provided funds for initiating the *Index of Mosses*. The project is endorsed by the International Association of Bryologists and has received its encouragement through the years. Peter H. Raven has provided continuing enthusiastic support for muscology in general and this project in particular since his arrival in St. Louis over twenty years ago, and we thank him.

Hundreds of colleagues sent reprints from which we extracted information. We especially thank: Bruce H. Allen and Chiang Tzen-yuh (MO) for pointing out errors and omissions in the *Index of Mosses* data base; M. A. Bruggeman-Nannenga (U) for comments, corrections, and additions in *Fissidens*; William R. Buck (NY) for pointing out previously overlooked names; He Xiao-lan (PE) for assistance with Chinese-language literature; Timo Koponen (H) for pointing out previously overlooked names; Jette Lewinsky (C) for pointing out previously overlooked names; Gordon D. McPherson (MO) for help with interpreting Latin and the *Code*; Barbara M. Murray (ALA) for reviewing an early draft and especially for comments on Andreaeopsida; Tatiana Shulkina (LE, now Buffalo Grove, Illinois) for assistance with Russian-language literature; Andries Touw (L) for reviewing an early draft, pointing out omissions, and providing several dozen additions; Clifford C. Townsend (K) for pointing out previously overlooked names; Henk van der Werff (MO) for counsel on Latin-language issues; and Wu Pan-cheng (PE) for reviewing an early draft and pointing out omissions from the Chinese literature.

Many authors of names provided their full names and years of birth. R. K. Brummitt and Emma Powell (K) made information available from the extensive files about botanical authors they are accumulating for the forthcoming *Authors of Plant Names*. Bernadette G. Callery (NY) checked the TL-2 files, which are now housed there, and supplied information on about a dozen authors, contemporary and past. Patricia K. Holmgren (NY) made available a list of current staff from pre-publication information gathered for *Index Herbariorum*, edition 8. Zen Iwatsuki (HIRO) and N. Nishimura (HIRU) gathered information on Japanese authors. Wu Pan-cheng (PE) gathered information on Chinese authors.

Dale Johnson (formerly of MO, now of Timber Press) assisted with locating books and with interlibrary loans. B. O. van Zanten (GRO) provided information about some journal titles from the Dutch literature.

Finally, we thank Amy Scheuler and Diana Gunter (MO), who provided excellent advice concerning format and style and help with proofreading, and Barb Mack (MO), who assisted with correcting the final several word-processed files and tolerated the senior author's mood swings for years as the project progressed.

The names included in this *Index* fall into three categories: First, names published from 1 January 1963 through 31 December 1989, the 27-year period of primary consideration, and names published before 1963 that were not included in *Index Muscorum*. We have not included invalid names that were omitted from *Index Muscorum*, and we have not included names of formae published before 1963 unless they were needed as basionyms or replaced names. Names in this category have complete citations, including types for those published from 1963 through 1989. Names not included in *Index Muscorum* are so noted. For the 27-year period names from the rank of genus and below (including formae and subformae) are included. The reason for including names at all ranks below species is that the use of an epithet under a species blocks the use of the same epithet, based on another type, within the species for another taxon (Article 64.4). Thus, the use of an epithet at the rank of forma blocks the use of the same epithet, based on another type, at any other infraspecific rank within the same species. For earlier names not included in *Index Muscorum*, names from the rank of genus to but not including formae and subformae are included, these being the ranks included in *Index Muscorum*. It is unfortunate that *Index Muscorum* does not include the names of formae and subformae, since the provisions of Article 64.4 were in force during its compilation and publication. Thus we must be unwittingly creating later homonyms at infraspecific ranks in the absence of a catalog of formal and subformal names. However, the inclusion of all these uncataloged names is beyond the scope of the present exercise. A card catalog of these names was compiled by W. D. Margadant, who still possesses the original, and a xerographic copy exists at MO. The information in this file needs verification before publication.

Example:
A. schreberianum fo. *integrifolium* Tosco, Webbia 28: 280. 1973.
Type: Italy. Gran Paradiso, Parco Nazionale, Val di cogne, Cogne, dirupi di Sylvenoire, *Tosco*, 1955. Holotype: herb. Tosco.

Second, names published before 1963 that are basionyms for combinations published during the 27-year period, or those not included in *Index Muscorum*, and names that have been replaced by names published during the 27-year period, or not included in *Index Muscorum*. The listings for these basionym/replaced names are identical to those of the first category, except types are not listed.

Example:
A. ceylonense Brotherus & Dixon ex Dixon, J. Bot. 53: 293. f. 7. 1915.
Other use: *Wijkia ceylonensis* (Brotherus & Dixon ex Dixon) H. Crum, 1971.

Third, names published before 1963 that serve as markers for the first two categories. These marker names indicate the earlier-published genus or species to which the following fully cited name(s) belong. Entries for marker names contain only enough information to establish their identity, that is, name, author(s), and date of publication.

Example:
A. rutenbergii (C. Müller ex Geheeb) Brotherus in Paris, 1903.
A. rutenbergii var. *eflagellare* Cardot in Grandidier, Hist. Phys. Madagascar, Mousses 39: 516. 1915.
Other use: *Wijkia rutenbergii* var. *eflagellaris* (Cardot in Grandidier) H. Crum, 1971.

Two symbols are used before some names to indicate they have special status. The most common symbol is the asterisk (*), which indicates the name is unacceptable under some provision of the *International Code of Botanical Nomenclature* (Greuter et al., 1988). The reason for its unacceptability is explained in an annotation, which also has an asterisk before it, to the name.

Example:
**B. lacustre* (Weber & D. Mohr) Blandow in Sturm, 1809.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Bryum lacustre* Bridel, 1803.

Many new combinations are invalid because the authors did not fully cite the basionyms. These invalid names are included, but their basionyms are not. Thus the user can find the name, but we are not validating it here.

Example:
**B. bartramioides* var. *sikkimensis* (Kabiersch) Gangulee, Mosses E. India 4: 1106. 1974.
*invalid, basionym not cited (Article 33.2).

Names for new taxa are invalid if the type is cited as being in more than one herbarium, since Article 7 defines a holotype as "one specimen": one specimen cannot be in two places at once.

Example:
**F. cadetii* Bizot, Rev. Bryol. Lichénol. 40: 110. pl. 5: a-b. 1974.
*invalid, single element not cited as holotype (Article 37.3).
Type: Reunion. St. Philippe, *Cadet 361*. Herbaria: "herbiers Cadet et Bizot."
Original placement: subgen. *Pachyfissidens*.

Names may also be invalid because a holotype was not indicated. Article 37 of the *Code* is explicit about what is required after 1 January 1958: "the name . . . is valid only when the holotype of the name is indicated . . . mere citation of a

locality without reference to a specimen does not constitute indication of a holotype. Citation of the collector's name . . . or reference to any other detail of the type specimen . . . is required." We have interpreted this as follows: if the institution in which the type is deposited is not indicated, the name may still be valid, since this was not required until 1 January 1990 (Article 37.5). If no collector or other detail of the specimen is given, the name is invalid. If only a locality is given, the name is invalid.

Example:
**B. maritimum* var. *epicamptum* Podpera, Bryum Gen. Monogr. Prodr. 17: 252. 1973.
*invalid, single element not cited as holotype (Article 37.3).
Type: Several specimens cited but none indicated as holotype.

We have not combed the literature for orthographic variants, but we have recorded a few that might cause confusion. These often involve the first letter of the name's changing.

Example:
**D. zonanenum* Li Xing-jiang et al., Bryofl. Xizang 52. f. 23: 1-9. 1985.
*invalid, orthographic variant (Article 75.1).
Correct name: *Dicranum conanenum* Gao Chien in Gao Chien & Chang Kung-chu, 1979.

The second symbol that may precede a name is the addition sign (+), used to indicate the name is for a fossil moss. If a name is both nomenclaturally unacceptable and a fossil, both signs appear.

Example:
+*B. mooiensis* Lacey, Dijk & Gordon-Gray, Ann. Natal Mus. 22: 411. illustration. 1975.
Type: South Africa. Mooi River-Estcourt by-pass, 80 km NW of Pietermaritzburg, *Dijk NM1880*. Holotype: Natal Museum.

Names of mosses appear in italic, with the rank of infrageneric and infraspecific names in roman before the epithet. The list is alphabetical by epithet then rank. This means that within a genus or species all infrataxa with the same epithet are together rather than being placed together according to rank. This makes the detection of the use of epithets within a genus or species easier than listing them by rank, an important consideration under Article 64.4 of the *Code*.

Each entry for a genus begins with the generic name fully spelled out as a separate entry. Thereafter the generic name is abbreviated by its initial letter.

The following abbreviations for infrageneric and infraspecific ranks are used: fo., forma; sect., section; subfo., subforma; subsect., subsection; subgen., subgenus; subsp., subspecies; subvar., subvariety; var., variety.

Introduction

The familial placement for newly described genera published during 1963-1989 is listed, if the publishing author indicated it. Infrageneric placement is given in those few instances where the author of a newly described species indicated it.

Example:
Acritodon H. Robinson, Bryologist 67: 452. 1964.
Type: *A. nephophilus* H. Robinson, holotype.
Original placement: Sematophyllaceae.

The names of authors are fully spelled out with initials added to distinguish those with the same family name, even if that author did not publish in mosses. One exception is the use of B.S.G. to indicate the authors of *Bryologia Europaea*. The names of authors of basionyms for combinations precede in parentheses the names of the author of the combination. An appendix, Authors Cited in the Index, lists all the authors' names used in the Index. A further explanation of the use of authors' names and the entries in the appendix appears there.

An abbreviated form of the name of the publication in which a name was published follows the names of authors. With a few exceptions, abbreviations follow B-P-H, *Botanico-Periodicum-Huntianum* (Lawrence et al., 1968), for periodicals, and TL-2, *Taxonomic Literature*, edition 2 (Stafleu & Cowan, 1978-1988) for books. Abbreviations for names of publications not included in those works were constructed using the principles set forth in the introduction to B-P-H.

An appendix, Publications Cited in the Index, lists all publications cited, their full titles, and the B-P-H or TL-2 numbers. A further explanation of the entries in the appendix appears there. The supplement to *Botanico-Periodicum-Huntianum*, B-P-H/S (Bridson & Smith, 1992), arrived too late to update our serials' abbreviations, but most of ours seem to be listed there. B-P-H/S's entries are listed by full title only, so that titles must be sought there rather than under abbreviations as in B-P-H. Since the appendix cites full titles, entries should be easily located in B-P-H/S, if they are there.

Collation refers to the place in the publication in which the name appears. This is usually a page number in a book or a volume and page number in a periodical. For names of new taxa that were illustrated when first published, an indication of the illustration is included, with the abbreviation "pl." being used for numbered plates, tabula and other words indicating the same thing, and f. for numbered figures and its equivalent in other languages. Some illustrations are complex, containing three levels, and these levels are not named in the Index. A few illustrations were not numbered or given a name when published, and these are indicated with the word "illustration."

Some well-known, often-cited muscological publications have been published with different page-numbering systems, for example, *Bryologia Europaea* (Bruch, Schimper & Gümbel), *Genera et Species Muscorum* (Jaeger & Sauerbeck), often cited by its subtitle, *Adumbratio Florae Muscorum*. Others are usually known by their title rather than the serial in which they appear; for

example, *Adumbratio Florae Muscorum* appeared over a period of years in *Bericht über die Thätigkeit der St. Gallischen Naturwissenschaftlichen Gesellschaft*, and *Index Muscorum* is five volumes of *Regnum Vegetabile*. Names published in these places are cited with both titles and collations.

Example:
B. bescherellei Sauerbeck in Jaeger, Ber. Thätigk. St. Gallischen Naturwiss. Ges. 1877-78: 409 (Gen. Sp. Musc. 2: 1427). 1880, "*bescherelleii*."
Replaced name: *Barbula rigidula* Bescherelle, 1872.
Blocking name: *Barbula rigidula* (Hedwig) Milde, 1869.
Other use: *Barbula acuta* var. *bescherellei* (Sauerbeck in Jaeger) H. Crum, 1969.

The date of publication is usually the year of the title page or cover of the work. If it is known that the title page year differs from the actual year, the actual year is given in square brackets after the title page year. Usually, the actual year is later than the title page year, but occasionally the actual year is earlier than the title page. In a few cases more precise dating than year of publication is required, and in those cases the more precise date is added in square brackets after the title page year.

Example:
B. columbiana (F. J. Hermann & E. Lawton) F. J. Hermann & E. Lawton, Bull. Torrey Bot. Club 99: 310. 1972 [1973].
Basionym: *Didymodon columbianus* F. J. Hermann & E. Lawton, 1968.

Orthography has been corrected with care, and if the orthography we use differs from the original, the original is given in quotation marks.

Example:
D. icmadophila (W. P. Schimper ex C. Müller) K. Saito, J. Hattori Bot. Lab. 39: 519. 1975, "*icmadophyllus*."
Basionym: *Barbula icmadophila* W. P. Schimper ex C. Müller, 1849.

The basionym of combinations with full citations is cited in abbreviated form in a paragraph labeled "Basionym." The basionym is fully cited, with its use in other combinations in abbreviated form, in the proper alphabetical place in the *Index of Mosses*.

Fully cited new names have their replaced name cited in abbreviated form in a paragraph labeled "Replaced name." The replaced name is fully cited, with the new name in abbreviated form, in the proper alphabetical place in the *Index of Mosses*.

If the use of an epithet is blocked by a previously published combination, the blocking name is cited in abbreviated form in a paragraph labeled "Blocking name."

Example:
B. linearifolia Lin Shan-Hsiung, Yushania 5: 26. 1988.
Replaced name: *Pseudobarbella angustifolia* Noguchi, 1948.
Blocking name: *Barbella angustifolia* Brotherus ex Gangulee, 1976.

Correct names, within the same genus or species, published during 1963-1989 for illegitimate names are cited in abbreviated form in a paragraph labeled "Correct name." The correct name is fully cited, with the illegitimate name in abbreviated form, in the proper alphabetical place in the *Index of Mosses*.

Example:
**B. denticulata* Dixon & Potier de la Varde, Arch. Bot. Bull. Mens. 1(3): 167. pl. 3: f. 5. 1927.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Barbula denticulata* Wilson in Mitten, 1851.
Correct name: *Barbula vardei* R. S. Chopra, 1977.

If a basionym, originally published for a new taxon or as a new name, has been used in another combination or is the basis for a new name, this other use is listed in an abbreviated form in a paragraph labeled "Other use." The other use is fully cited, with the basionym in abbreviated form, in the proper alphabetical place in the *Index of Mosses*.

Example:
A. sect. *Acanthocladiopsis* Fleischer, Musci Buitenzorg 4: 1205. 1923.
Other use: *Wijkia* sect. *Acanthocladiopsis* (Fleischer) H. Crum, 1971.

Any entry in the *Index of Mosses* may have a paragraph labeled "Note" for additional information about the entry. The note paragraph commonly contains information about the status of a name according to our interpretation of the *Code*, the fact that the name was omitted from *Index Muscorum*, or the fact that the name was republished as a redundant combination.

Examples:
A. hornschuchii Fleischer, Musci Buitenzorg 4: 1206. 1923.
Replaced name: *Hypnum hornschuchii* Dozy & Molkenboer, 1844 [Nov].
Blocking name: *Hypnum hornschuchii* Hampe, 1844 [before 17 Mar].
Other use: *Wijkia hornschuchii* (Fleischer) H. Crum, 1971.
Note: new name, based on adoption of earlier epithet (Article 72.Note 1).
A. coffeae var. *laxiretis* Thériot ex Bizot, Bull. Mens. Soc. Linn. Soc. Bot. Lyon 34: 315. 1965.
Type: Cuba. Jarahueca, *Acuña 182*. Holotype: herb. Thériot.
Note: invalid, no Latin description (Article 36.1), in Thériot, Mem. Soc. Bot. Cub. Hist. Nat. "Felipe Poey" 14(4): 1940.

A. borbonicum Bizot & Onraedt ex Onraedt, Bull. Jard. Bot. Natl. Belgique 46: 356. f. 5. 1976.
Type: Reunion. Le Guillaume, St. Paul, 800 m, *Onraedt 69.R.1008*. Holotype: herb. Onraedt; isotypes: BR, herb. Bizot.
Note: invalid, holotype not indicated (Article 37.1), in Rev. Bryol. Lichénol 40: 116. 1974.

A. camisassae Tosco & Piovano, Allionia 4: 145. f. 22. 1956.
Note: not in Index Muscorum.

A. undulatum var. *yunnanense* (Brotherus) Chen Pan-chieh & Wan Thung-ling ex Xu Wen-xuan & Xiong Ruo-li, Acta Bot. Yunnan. 6: 182. 1984.
Basionym: *Catharinea yunnanensis* Brotherus, 1923.
Note: valid, error of bibliographic citation of basionym (Article 33.2), "*Atrichum* (*Catharinea*) *yunnanense* Broth., Symb. Sin. 4: 131. 1929."

Types are cited for new taxa published from 1963 to 1989. The name of the type species for new genera and infragenera is given in abbreviated form. If the basionym of the type was originally published in another genus, the name in both the other genus and the new genus or infragenus is cited.

Example:
Bryobeckettia Fife, J. Hattori Bot. Lab. 58: 191. 1985.
Type: *Physcomitrella bartlettii* Fife, *B. bartlettii* (Fife) Fife, holotype.
Original placement: Funariaceae.

The locality, collector, and herbarium of type specimens of new species and infraspecies are cited, based on the protologue. Names of countries are always given in English, regardless of the name used by the author. Names of countries are based primarily on *Webster's New Geographical Dictionary* (Anonymous, 1988), with some adjustments based on recent political changes. Unfortunately, the dissolution of the U.S.S.R. occurred too late to make changes for taxa described from the republics. If authors cited a major subdivision of a country, usually a province or state, this is cited; but if no subdivision was cited in the protologue, we have not added one, even when it was obvious or easily determined. The precise locality, if given in the protologue, is cited, usually in a somewhat abbreviated form. Collectors' names and numbers are given, when cited by the author. If no collection number is cited, the year of collection is cited, if available in the protologue. If no collection number or year is cited, the abbreviation "*s.n.*" follows the name of the collector(s). Many new species and infraspecies are based on specimens in published exsiccatae, and these are indicated when cited in the protologue.

Example:
B. ciliata Gao Chien & Chang Kung-chu, Bull. Bot. Res. (Harbin) 2: 117. f. 2. 1982.
Type: China. Hubei: Wufeng Xian, Mt. Jianbengzishan, 1840 m, *Fu 5-023*. Holotype: ISPH.

If the author did not cite a locality, collector, or herbarium, this is noted.

Example:

B. arcticum fo. *cydonium* Podpera, Bryum Gen. Monogr. Prodr. 17: 275. 1973. Type: Sweden. Jamtland, *Hassler 73/10*. Herbarium not specified by author.

The location of the holotype (and isotype(s) if cited) is indicated, using, for the most part, the abbreviations used by authors, which usually correspond to those in the edition of *Index Herbariorum* that was current when the name was published. A few obvious typographical errors in citing abbreviations have been corrected. Personal herbaria are treated as follows: if the name was published and the type listed as being in a personal herbarium, it is cited "herb. Smith" or whatever name was given, even if the collection was subsequently deposited in a public herbarium. For example, if E. B. Bartram published a name and said the type was in his herbarium, it is cited "herb. Bartram." If the name was published and the type listed as being in a personal herbarium that at the time was deposited in a public herbarium, it is cited with the IH abbreviation followed by the person's name, "BM-Smith." For example, if Buck published a name and said the type was in the Mitten collection at NY, it is cited "NY-Mitten."

Example:

C. crenulata Frahm, Norris & T. Koponen, Ann. Bot. Fenn. 25: 259. f. 1. 1988. Type: Papua New Guinea. Morobe: Mount Kaindi Road 3 km W of Wau, 1500 m, *Streimann 34135*. Holotype: herb. Frahm; isotypes: CBG, HSC.

Josef Podpera's *Bryum Generis Monographiae Prodromus*, parts 16 and 17, published posthumously in 1973 and containing hundreds of nova, is problematic in several respects. Non-standard herbarium abbreviations were used. These are explained in Podpera (1950: 378). Holotypes were cited in an abbreviated form by Podpera: only the locality was indicated. However, the specimen was recited more fully below the indication of holotype, usually with other specimens, treated here as paratypes. From the more complete citation we extracted the name of the collector (and number or year of collection, if given) and the herbarium in which the collection is deposited. In some cases, the abbreviated information given for the holotype is not sufficient to distinguish two or more collections cited below. In these cases we have treated the name as invalid, and no specimen is listed in the Index.

Podpera usually used several, more than three, taxonomic ranks in his treatments of *Bryum*. Only three nomenclatural ranks are allowable under the *Code*. By mixing taxonomy and nomenclature, he occasionally simultaneously created homonyms within the same species. Future users of this information will determine which is correct (Article 64.5).

Square brackets, [ ], are used for information that we have added, that is, information that could not be derived from the protologue. The most common

use of the square brackets is for citing actual dates of publication when they are different from the title page dates.

Literature Cited

Anonymous, 1988. Webster's New Geographical Dictionary. Merriam-Webster, Springfield, Massachusetts.

Bauer, C. R. & M. R. Crosby. 1986. Index Muscorum supplementum: 1982-1983. Taxon 35: 416-439.

Bridson, G. D. R. & E. R. Smith. 1992. B-P-H/S: Botanico-Periodicum-Huntianum/Supplementum. Hunt Institute for Botanical Documentation, Pittsburgh.

Crosby, M. R. 1977. Index Muscorum supplementum: 1974-1975. Taxon 26: 285-307.

_____. 1979. Index Muscorum supplementum: 1976-1977. Taxon 28: 237-264.

_____ & C. R. Bauer. 1981. Index Muscorum supplementum: 1978-1979. Taxon 30: 667-693.

_____ & C. R. Bauer. 1983. Index Muscorum supplementum: 1979-1981. Taxon 32: 670-691.

_____ & C. R. Bauer. 1987. Index Muscorum supplementum: 1984-1985. Taxon 36: 502-527.

Greuter, W. et al. 1988. International code of botanical nomenclature. Regnum Veg. 118.

Lawrence, G. H. M., A. F. G. Buchheim, G. S. Daniels & H. Dolezal. 1968. B-P-H: Botanico-Periodicum-Huntianum. Hunt Botanical Library, Pittsburgh.

Podpera, J. 1950. Bryum generis monographiae prodromus. 1. Species Eurasiae septenrionalis [sic]. Pars. 5. systematica. Práce Morav.-Slez. Akad. Ved. Prir. 22: 357-472.

Stafleu, F. A. & R. S. Cowan. 1976-1988. Taxonomic literature. Second edition. Regnum Veg. 94, 98, 105, 110, 112, 115, 116.

Abietinella C. Müller, 1896.
A. brandisii (C. Müller) Brotherus in Bruehl, Rec. Bot. Surv. India 13(1): 90. 1931.
Basionym: *Hypnum brandisii* C. Müller, 1878.
Note: redundant combination in Vohra, Bull. Bot. Surv. India 21: 171. 1979 [1981].

Acanthocladiella Fleischer, 1923.
A. albescens (Potier de la Varde) H. Robinson & C. F. Reed, Bryologist 69: 322. 1966.
Basionym: *Heterophyllium albescens* Potier de la Varde, 1934.
A. guineensis (Brotherus & Paris) H. Robinson & C. F. Reed, Bryologist 69: 322. 1966.
Basionym: *Pylaisaea guineensis* Brotherus & Paris, 1904.
A. julicaulis (Brotherus & Paris) H. Robinson & C. F. Reed, Bryologist 69: 322. 1966.
Basionym: *Rhaphidostegium julicaule* Brotherus & Paris, 1902.

***Acanthocladium** Mitten, Proc. Linn. Soc. New South Wales 7: 102. 1883.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Acanthocladium* F. Müller, 1861.
Correct name: *Wijkia* H. Crum, 1971.
A. sect. *Acanthocladiopsis* Fleischer, Musci Buitenzorg 4: 1205. 1923.
Other use: *Wijkia* sect. *Acanthocladiopsis* (Fleischer) H. Crum, 1971.
A. sect. *Tanythrix* Fleischer, Musci Buitenzorg 4: 1206. 1923.
Other use: *Wijkia* sect. *Tanythrix* (Fleischer) H. Crum, 1971.
A. albescens Thériot & Potier de la Varde, Bull. Soc. Bot. France 72: 363. f. 15. 1925.
Other use: *Wijkia albescens* (Thériot & Potier de la Varde) H. Crum, 1971.
A. alboalare Tixier, Rev. Bryol. Lichénol. 37: 745. f. 9. 1970 [1971].
Type: Vietnam. Lam Dong, Da Brinh, 700 m, *Tixier 299*. Herbarium not specified by author.
Other use: *Wijkia alboalaris* (Tixier) Manuel, 1981.
A. annamense Brotherus ex Thériot, Rev. Bryol., n.s. 3: 184. 1931.
Other use: *Wijkia annamensis* (Brotherus ex Thériot) H. Crum, 1971.
A. baculiferum Dixon, J. Bombay Nat. Hist. Soc. 39: 791. pl. 1: f. 20. 1937.
Other use: *Wijkia baculifera* (Dixon) H. Crum, 1971.
A. benguetense Brotherus, Philipp. J. Sci. 31: 294. 1926.
Other use: *Wijkia benguetensis* (Brotherus) H. Crum, 1971.
A. benguetense var. *latifolium* E. B. Bartram, Farlowia 1: 187. 1943.
Other use: *Wijkia benguetensis* var. *latifolia* (E. B. Bartram) H. Crum, 1971.
A. brevifolium Dixon, J. Linn. Soc., Bot. 50: 116. pl. 3: f. 31. 1935.
Other use: *Wijkia brevifolia* (Dixon) H. Crum, 1971.

Acanthocladium, continued.

A. carlottae Schofield, Bryologist 69: 336. f. 1-6. 1966.
Type: Canada. British Columbia: Chaatl Island, *Schofield & Boas 18733*. Holotype: UBC.
Other use: *Wijkia carlottae* (Schofield) H. Crum, 1971.
Original placement: sect. *Tanythrix*.

A. ceylonense Brotherus & Dixon ex Dixon, J. Bot. 53: 293. f. 7. 1915.
Other use: *Wijkia ceylonensis* (Brotherus & Dixon ex Dixon) H. Crum, 1971.

A. clarkii Dixon, J. Linn. Soc., Bot. 45: 506. pl. 29: f. 15. 1922.
Other use: *Wijkia clarkii* (Dixon) H. Crum, 1971.

A. clastobryoides Tixier, Rev. Bryol. Lichénol. 34: 162. f. 22. 1966.
Type: Vietnam. Chemin de Chapa a la cote, 1700 m, *Petelot 114*. Herbarium not specified by author.
Other use: *Wijkia clastobryoides* (Tixier) Ninh, 1981.

A. comosum Tixier, Rev. Bryol. Lichénol. 37: 747. f. 10. 1970 [1971].
Type: Vietnam. Tuyen Duc, Mont Lang Bian, 1900 m, *Tixier 294*. Herbarium not specified by author.

A. concavifolium Cardot, Bull. Soc. Bot. Genève, ser. 2, 4: 382. 1912.
Other use: *Wijkia concavifolia* (Cardot) H. Crum, 1971.

A. costaricense E. B. Bartram & Dixon in E. B. Bartram, J. Wash. Acad. Sci. 21: 294. f. 20-25. 1931.
Other use: *Wijkia costaricensis* (E. B. Bartram & Dixon in E. B. Bartram) H. Crum, 1971.

A. crossii Brotherus & Geheeb, Oefers. Förh. Finska Vetensk.-Soc. 35: 55. 1893.
Other use: *Wijkia crossii* (Brotherus & Geheeb) H. Crum, 1971.

A. cuynetii Bizot, Acta Bot. Acad. Sci. Hung. 18: 16. f. 3: 1-4. 1973.
Type: Cameroun. Mt. Cameroun, 2000 m, *Balazs 60*. Holotype: DI; isotype: EGR.
Other use: *Wijkia cuynetii* (Bizot) Schultze-Motel, 1975.

A. deflexifolium Mitten ex Renauld & Cardot, Bull. Soc. Roy. Bot. Belgique 41(1): 92. 1902-03 [1905].
Other use: *Wijkia deflexifolia* (Mitten ex Renauld & Cardot) H. Crum, 1971.

A. dentigerum Dixon, Ann. Bryol. 12: 55. 1939.
Other use: *Wijkia dentigera* (Dixon) H. Crum, 1971.

A. doii Sakurai, Bot. Mag. (Tokyo) 46: 506. 1932.
Other use: *Wijkia doii* (Sakurai) H. Crum, 1971.

A. fauriei Bescherelle ex Cardot, Bull. Soc. Bot. Genève, ser. 2, 4: 382. 1912.
Other use: *Pylaisiadelpha fauriei* (Bescherelle ex Cardot) Buck, 1984.

A. filiferum Brotherus & Paris ex Tixier, Rev. Bryol. Lichénol. 37: 748. f. 11. 1970 [1971].
Type: Vietnam/Laos. *Mercier*, 1900. Holotype: H-Brotherus.

**A. filiferum* var. *minus* Tixier, Rev. Bryol. Lichénol. 37: 749. f. 12. 1970 [1971], "*minor*."
*invalid, holotype not indicated (Article 37.1).
Type: no element cited by author.

Acanthocladium, continued.

A. filipendulum Dixon, J. Siam Soc., Nat. Hist. Suppl. 10: 18. 1935.
Other use: *Wijkia filipendula* (Dixon) H. Crum, 1971.

A. flagelliforme Tixier, Rev. Bryol. Lichénol. 37: 751. f. 13. 1970 [1971].
Type: Vietnam. Tuyen Duc, Dalat, Manline, 1300 m, *Tixier 295*. Herbarium not specified by author.

A. gonoi Brotherus ex Iishiba, Cat. Moss. Japan 247. 1929.
Other use: *Wijkia gonoi* (Brotherus ex Iishiba) H. Crum, 1971.

A. gracile E. B. Bartram, Brittonia 9: 51. 1957.
Other use: *Wijkia gracilis* (E. B. Bartram) H. Crum, 1971.

A. hornschuchii Fleischer, Musci Buitenzorg 4: 1206. 1923.
Replaced name: *Hypnum hornschuchii* Dozy & Molkenboer, 1844 [Nov].
Blocking name: *Hypnum hornschuchii* Hampe, 1844 [before 17 Mar].
Other use: *Wijkia hornschuchii* (Fleischer) H. Crum, 1971.
Note: new name, based on adoption of earlier epithet (Article 72.Note 1).

A. hornschuchii var. *robustum* Zanten, Nova Guinea, Bot. 10(16): 324. 1964.
Type: Indonesia [New Guinea]. Irian Barat: Sibil-valley, Basis Camp, 1300 m, *Zanten 10*. Holotype: L; isotype: GRO.
Other use: *Wijkia hornschuchii* var. *robusta* (Zanten) H. Crum, 1971.

A. jacobsonii Dixon, Ann. Bryol. 5: 40. 1932.
Other use: *Wijkia jacobsonii* (Dixon) H. Crum, 1971.

A. juliforme Herzog & Dixon, Hong Kong Naturalist, Suppl. 2: 25. pl. 2: f. 15. 1933.
Other use: *Wijkia juliformis* (Herzog & Dixon) H. Crum, 1971.

A. jungneri Brotherus, Bot. Jahrb. Syst. 24: 278. 1897.
Other use: *Wijkia jungneri* (Brotherus) H. Crum, 1971.

A. jungneri var. *subintegrifolium* Potier de la Varde, Rev. Bryol. Lichénol. 6: 149. 1934.
Other use: *Wijkia jungneri* var. *subintegrifolia* (Potier de la Varde) H. Crum, 1971.

A. laxum Dixon, J. Siam Soc., Nat. Hist. Suppl. 9(1): 39. 1932.
Other use: *Wijkia laxa* (Dixon) H. Crum, 1971.

A. letestui Thériot & Potier de la Varde, Rev. Bryol. Lichénol. 5: 203. f. 3: 1-15. 1933.
Other use: *Wijkia letestui* (Thériot & Potier de la Varde) H. Crum, 1971.

A. longipilum Brotherus, Beih. Bot. Centralbl. 28(2): 361. 1911.
Other use: *Wijkia longipila* (Brotherus) H. Crum, 1971.

A. madagassum Thériot, Recueil Publ. Soc. Havraise Études Diverses 1923(2): 24. pl. 24. 1923.
Other use: *Wijkia madagassa* (Thériot) H. Crum, 1971.

A. nakanishikii Brotherus, Oefers. Förh. Finska Vetensk.-Soc. 62A(9): 41. 1921.
Other use: *Brotherella nakanishikii* (Brotherus) Noguchi, 1984, *Wijkia nakanishikii* (Brotherus) H. Crum, 1971.

A. niveum Herzog, Hedwigia 66: 352. 1926.
Other use: *Wijkia nivea* (Herzog) H. Crum, 1971.

Acanthocladium, continued.

A. pallidum Renauld & Cardot, Bull. Soc. Roy. Bot. Belgique 41(1): 93. 1902-03 [1905].
Other use: *Pylaisiadelpha pallida* (Renauld & Cardot) Buck, 1984.

A. papillatum Zanten, Nova Guinea, Bot. 10(16): 325. pl. 29: f. 1. 1964.
Type: Indonesia [New Guinea]. Irian Barat: Sibil-valley, Basis Camp, 1300 m, *Zanten 82*. Holotype: L; isotype: GRO.
Other use: *Wijkia papillata* (Zanten) H. Crum, 1971.

A. pendulum Zanten, Nova Guinea, Bot. 10(16): 326. pl. 29: f. 2. 1964.
Type: Indonesia [New Guinea]. Irian Barat: Mt. Antares, Camp 40, 2400 m, *Zanten 627b*. Holotype: L; isotype: GRO.
Other use: *Wijkia pendula* (Zanten) H. Crum, 1971.

**A. piliferum* (Brotherus) Tixier in Pócs & Tixier, Bot. Közelem. 54: 36. 1967.
*invalid, basionym not cited (Article 33.2).

**A. piliferum* Sehnem, Pesquisas, Bot. 32: 99. pl. 1: d (pp. 142-143). 1978.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Acanthocladium piliferum* Tixier in Pócs & Tixier, 1967.
Type: Brazil. Rio Grande do Sul: Montenegro, Linha Sao Paulo, *Sehnem 3298*. Herbarium not specified by author.

A. pinnatum Fleischer, Hedwigia 50: 284. 1911.
Other use: *Wijkia pinnata* (Fleischer) H. Crum, 1971.

A. polymorphum Dixon, Bull. Torrey Bot. Club 51: 245. pl. 4: f. 3. 1924.
Other use: *Wijkia polymorpha* (Dixon) H. Crum, 1971.

A. radiculosum Baumgartner & J. Fröhlich, Arch. Hydrobiol. Suppl. 21: 326. 1955.
Other use: *Wijkia radiculosa* (Baumgartner & J. Fröhlich) H. Crum, 1971.

A. rigidifolium Dixon, Proc. Roy. Soc. Queensland 53(2): 37. 1941.
Other use: *Wijkia rigidifolia* (Dixon) H. Crum, 1971.

A. rutenbergii (C. Müller ex Geheeb) Brotherus in Paris, 1903.

A. rutenbergii var. *eflagellare* Cardot in Grandidier, Hist. Phys. Madagascar, Mousses 39: 516. 1915.
Other use: *Wijkia rutenbergii* var. *eflagellaris* (Cardot in Grandidier) H. Crum, 1971.

A. scabrifolium Brotherus in H. A. Möller, Hedwigia 60: 326. illustration. 1919.
Other use: *Wijkia scabrifolia* (Brotherus in H. A. Möller) Touw, 1978.

A. subflagelliferum Bizot, Bull. Mens. Soc. Linn. Soc. Bot. Lyon 34: 323. f. 1. 1965.
Type: Cuba. Loma del Gato, *Hioram 12480*. Holotype: herb. Bizot.
Other use: *Wijkia subflagellifera* (Bizot) Buck & Steere, 1983.

A. sublepidum Brotherus, Symb. Sin. 4: 119. 1929.
Other use: *Wijkia sublepida* (Brotherus) H. Crum, 1971.

A. sublepidum var. *denticulatum* Tixier, Rev. Bryol. Lichénol. 34: 165. 1966.
Type: Vietnam. Chapa, col de Lo-Qui-Ho, 1900 m, *Petelot 65*. Holotype: PC.

Acanthocladium, continued.
A. trichocolea (C. Müller) Brotherus, 1894.
A. trichocolea subsp. *subintegrifolium* Thériot & Potier de la Varde, Bull. Soc. Bot. France 74: 151. f. 46. 1927.
Other use: *Wijkia trichocolea* var. *subintegrifolia* (Thériot & Potier de la Varde) H. Crum, 1971.

***Acantholoma** Herzog, Hedwigia 66: 344. 1926.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Acantholoma* Baillon, 1866.
Correct name: *Bryoacantholoma* Schultze-Motel, 1963.
A. vaginatum Herzog, Hedwigia 66: 345. f. 25-30. 1926.
Other use: *Bryoacantholoma vaginatum* (Herzog) Schultze-Motel, 1963.

Acaulon C. Müller, 1847.
A. subgen. *Alaticosta* Stone, J. Bryol. 9: 573. 1977.
Type: *A. chrysacanthum* Stone, holotype.
Note: invalid, holotype not indicated (Article 37.1), in J. Bryol. 9: 213. 1976.
A. brisbanicum C. Müller, Linnaea 37: 144. 1872.
Other use: *Trachycarpidium brisbanicum* (C. Müller) Stone, 1975.
A. casasianum Brugués & H. Crum, Lindbergia 10: 1. f. 1-11. 1984.
Type: Spain. Castellfullit de Riubregos, La Segarra, 41°40' N, 1°20' E, *Brugués & Farras*, 1982. Holotype: BCB; isotype: MICH.
A. chrysacanthum Stone, J. Bryol. 9: 213. f. 1-3, 4: a-j, 5: a-i. pl. 1: a-b. 1976.
Type: Australia. Victoria: Murray Valley Highway, near Boundary Bend, ca. 34°43' S, 143°10' E, 63 m, *Stone 1385*. Holotype: MEL; isotypes: MELU, herb. Stone. Other indicated distribution: Australia (New South Wales).
Original placement: subgen. *Alaticosta*.
A. crassinervium C. Müller, Hedwigia 41: 119. 1902.
Other use: *Phascum robustum* var. *crassinervium* (C. Müller) Stone, 1989.
A. dertosense C. Casas et al., Anales Jard. Bot. Madrid 42: 299. f. 1. 1986.
Type: Spain. Tarragona: Pauls dels Ports, *Casas, Sergio, Cros & Brugués, 1984*. Holotype: BCB.
A. granulosum Stone, J. Bryol. 15: 257. f. 1, 4: a-c. 1988.
Type: Australia. Victoria: Hattah Lakes National Park, *Beauglehole 57230*. Holotype: MEL. Other indicated distribution: Australia (Western Australia).
A. leucochaete Stone, J. Bryol. 9: 217. f. 4: k-l, 5: j-m, 6-7. pl. 1: c-d. 1976.
Type: Australia. Victoria: Murray Valley Highway, near Boundary Bend, 63 m, *Stone 1548B*. Holotype: MEL; isotypes: BM, MELU, herb. Stone. Other indicated distribution: Australia (New South Wales, South Australia, Western Australia).
Original placement: subgen. *Alaticosta*.
A. mediterraneum Limpricht, Laubm. Deutschl. 1: 180. 1885.
Other use: *Acaulon muticum* var. *mediterraneum* (Limpricht) Sérgio, 1972.

Acaulon, continued.

A. muticum (Schreber ex Hedwig) C. Müller, 1847.

A. muticum var. *mediterraneum* (Limpricht) Sérgio, Bol. Soc. Brot., ser. 2, 46: 460. 1972.

Basionym: *Acaulon mediterraneum* Limpricht, 1885.

A. muticum var. *rufescens* (Jaeger) H. Crum, Bryologist 72: 240. 1969.

Basionym: *Acaulon rufescens* Jaeger, 1869.

A. recurvatum Magill, Fl. S. Africa, Bryophyta, Mosses 1: 199. f. 56: 12-18. 1981 [1982].

Type: South Africa. Cape: Namaqualand, Springbok, 10 km E of Springbok, on Pofadder Road, *Schelpe 7717*. Holotype: BOL; isotypes: MO, PRE.

A. robustum Brotherus ex G. Roth, Hedwigia 53: 94. pl. 2: f. 7. 1913.

Other use: *Phascum robustum* (Brotherus ex G. Roth) Stone, 1989.

A. rufescens Jaeger, Ber. Thätigk. St. Gallischen Naturwiss. Ges. 1868-69: 77. 1869.

Other use: *Acaulon muticum* var. *rufescens* (Jaeger) H. Crum, 1969.

A. rufochaete Magill, Fl. S. Africa, Bryophyta, Mosses 1: 201. f. 56: 19-25. 1981 [1982].

Type: South Africa. Cape: Knersvlakte, 6 km NE of Vanrhynsdorp, near turnoff to Kobee, *Magill & Schelpe 3877c*. Holotype: PRE; isotypes: BOL, H, MO, NY.

Achrophyllum Vitt & Crosby, Bryologist 75: 174. 1972.

Replaced name: *Pterygophyllum* Brotherus, 1925.

Blocking name: *Pterygophyllum* Bridel, 1819 [1818].

A. anomalum (Schwägrichen) H. Robinson, Phytologia 29: 118. 1974.

Basionym: *Racopilum anomalum* Schwägrichen, 1830.

A. crassirete (Matteri) Matteri, Bol. Soc. Argent. Bot. 18(3-4): 13. 1979.

Basionym: *Pterygophyllum crassirete* Matteri, 1972.

A. dentatum (J. D. Hooker & Wilson) Vitt & Crosby, Bryologist 75: 175. 1972.

Basionym: *Hookeria dentata* J. D. Hooker & Wilson, 1844.

A. haesselianum (Matteri) Matteri, Bol. Soc. Argent. Bot. 18(3-4): 13. 1979.

Basionym: *Pterygophyllum haesselianum* Matteri, 1972.

A. javense (Dixon ex J. Fröhlich) Iwatsuki, B. C. Tan & Touw in Touw, J. Hattori Bot. Lab. 44: 149. 1978.

Basionym: *Pterygophyllum javense* Dixon ex J. Fröhlich, 1953.

A. magellanicum (Bescherelle) Matteri, Bol. Soc. Argent. Bot. 18(3-4): 14. 1979.

Basionym: *Pterygophyllum magellanicum* Bescherelle, 1889.

A. magellanicum var. *oligodontum* (Matteri) Matteri, Bol. Soc. Argent. Bot. 18(3-4): 14. 1979.

Basionym: *Pterygophyllum magellanicum* var. *oligodontum* Matteri, 1972.

A. quadrifarium (Smith) Vitt & Crosby, Bryologist 75: 174. 1972.

Basionym: *Hookeria quadrifaria* Smith, 1808.

A. tenuinerve (Brotherus in Skottsberg) H. Robinson, Phytologia 29: 118. 1974.

Basionym: *Pterygophyllum tenuinerve* Brotherus in Skottsberg, 1924.

Acidodontium Schwägrichen, 1827, conserved name.
A. grubbii E. B. Bartram, Rev. Bryol. Lichénol. 33: 6. 1964 [1965].
Type: Ecuador. 1 mile NE of Borja, *Grubb 2859*. Holotype: BM.
A. lanceolatifolium Ochi, J. Fac. Educ. Tottori Univ., Nat. Sci. 29: 87. f. 18. 1980.
Type: Peru. Cajamarca: Contumaza, bei Tambo de Lima zw. Contumaza u. Cascas, 2000 m, *Hegewald & Hegewald 7404*. Holotype: EPH; isotype: herb. Ochi.

Acritodon H. Robinson, Bryologist 67: 452. 1964.
Type: *A. nephophilus* H. Robinson, holotype.
Original placement: Sematophyllaceae.
A. nephophilus H. Robinson, Bryologist 67: 452. f. 28-32. 1964.
Type: Mexico. Oaxaca: Sierra Juarez above Valle Nacional, Route 175, cloud forest near km 96, *Robinson 9723*. Holotype: US.

Acrocladiopsis (Brotherus) Cardot, 1914.
A. serrulata Cardot, Rev. Bryol. 41: 9. 1914.
Other use: *Taxiphyllum serrulatum* (Cardot) Lin Shan-Hsiung, 1984.

Acrocladium Mitten, 1869.
A. cuspidatum (Hedwig) Lindberg, 1879.
A. cuspidatum var. *patens* Podpera, Acta Bot. Bohem. 1: 20. 1922.
Other use: *Calliergon cuspidatum* var. *patens* (Podpera) Karczmarz, 1971.
A. cuspidatum var. *turgescens* Wheldon, Lancashire Cheshire Naturalist 17: 8. 1924.
Other use: *Calliergon cuspidatum* fo. *turgescens* (Wheldon) Karczmarz, 1971.
A. gracile Bescherelle, Bull. Soc. Bot. France 48: 15. 1901.
Other use: *Taxiphyllum gracile* (Bescherelle) Lin Shan-Hsiung, 1984.

***Acrocryphaea** W. P. Schimper ex Brotherus, 1905.
*illegitimate, type of earlier name included (Article 63.1).
Correct name: *Schoenobryum* Dozy & Molkenboer, 1848.
A. coffeae (C. Müller) Paris, 1900.
A. coffeae var. *laxiretis* Thériot ex Bizot, Bull. Mens. Soc. Linn. Soc. Bot. Lyon 34: 315. 1965.
Type: Cuba. Jarahueca, *Acuña 182*. Holotype: herb. Thériot.
Note: invalid, no Latin description (Article 36.1), in Thériot, Mem. Soc. Bot. Cub. Hist. Nat. "Felipe Poey" 14(4): 1940.
A. julacea (Dozy & Molkenboer) Jaeger, 1876.
A. julacea var. *costaricensis* Renauld & Cardot, Bull. Soc. Roy. Bot. Belgique 32(1): 175. 1893 [1894].
Other use: *Schoenobryum julaceum* var. *costaricense* (Renauld & Cardot) Manuel, 1977.

Acrocryphaea, continued.

A. latifolia Brotherus & Potier de la Varde in Potier de la Varde, Bull. Soc. Bot. France 72: 357. f. 8. 1925.

Other use: *Schoenobryum latifolium* (Brotherus & Potier de la Varde in Potier de la Varde) Manuel, 1977.

A. latifolia var. *microspora* Potier de la Varde, Rev. Bryol. Lichénol. 7: 235. 1934.

Other use: *Schoenobryum latifolium* var. *microsporum* (Potier de la Varde) Manuel, 1977.

A. paraguensis Bescherelle, J. Bot. (Morot) 5: 342. 1891.

Other use: *Schoenobryum paraguense* (Bescherelle) Manuel, 1977.

A. plicatula Dixon & Thériot, Mélanges Bryol. Lichénol. 72. 1942.

Other use: *Schoenobryum plicatulum* (Dixon & Thériot) Manuel, 1977.

A. robusta Brotherus in Mildbraed, Wiss. Erg. Deut. Zentr.-Afr. Exped., Bot. 2: 158. pl. 15: f. 43. 1910.

Other use: *Schoenobryum robustum* (Brotherus in Mildbraed) Manuel, 1977.

A. subintegra (Renauld & Cardot in Renauld) Cardot in Paris, 1909.

A. subintegra var. *idanreensis* Richards & S. R. Edwards, J. Bryol. 7: 55. f. 3, 4: a. 1972.

Type: Nigeria. Ondo: Idanare, SW face Carter Park, 550 m, *Richards 3760*. Herbarium not specified by authors.

Other use: *Schoenobryum subintegrum* var. *idanreense* (Richards & S. R. Edwards) Manuel, 1977.

A. subrobusta Brotherus & Potier de la Varde in Potier de la Varde, Bull. Soc. Bot. France 72: 358. f. 9. 1925.

Other use: *Schoenobryum subrobustum* (Brotherus & Potier de la Varde in Potier de la Varde) Manuel, 1977.

A. tisserantii Thériot & Potier de la Varde in Potier de la Varde, Bull. Soc. Bot. France 72: 358. f. 10. 1925.

Other use: *Schoenobryum tisserantii* (Thériot & Potier de la Varde in Potier de la Varde) Manuel, 1977.

Acroporium Mitten, 1868.

A. antarense Zanten, Nova Guinea, Bot. 10(16): 337. pl. 32: f. 1. 1964.

Type: Indonesia [New Guinea]. Irian Barat: Mt. Antares, Camp 39a, 1500 m, *Zanten 393*. Holotype: L; isotype: GRO.

A. caespitosum (Hedwig) Buck, Brittonia 35: 310. 1983.

Basionym: *Leskea caespitosa* Hedwig, 1801.

A. catharinense Sehnem, Pesquisas, Bot. 32: 109. pl. 4: a (pp. 148-149). 1978.

Type: Brazil. Santa Catarina: in insula Sanctae Catharinae, Morrodo Antao, 250 m, *Sehnem 3204*. Herbarium not specified by author.

A. dixonii Tixier, Rev. Bryol. Lichénol. 34: 168. f. 25. 1966.

Type: Vietnam. Chapa, 1500 m, *Petelot*, 1927. Herbarium not specified by author.

Acroporium, continued.

A. eburense Bizot, Rev. Bryol. Lichénol. 42: 851. 1976, "*eburensis*."
Type: Ivory Coast. Soubre, Parc National de Tai, *Ake-Assi 12639*. Holotype: herb. Bizot; isotype: herb. Ake-Assi.

A. flagelliferum Sakurai, Bot. Mag. (Tokyo) 48: 391. 1934.
Replaced name: *Trichosteleum flagelliferum* Sakurai, 1932.
Blocking name: *Trichosteleum flagelliferum* Brotherus, 1895.
Other use: *Neacroporium flagelliferum* (Sakurai) Iwatsuki & Noguchi, 1971.
Note: new name, based on adoption of earlier epithet (Article 72.Note 1).

A. laevibogoricum Dixon, J. Linn. Soc., Bot. 50: 118. 1935.
Other use: *Clastobryophilum bogoricum* var. *laevibogoricum* (Dixon) Seki in Noguchi, 1973.

A. lamprophyllum Mitten, J. Linn. Soc., Bot. 10: 183. 1869.
Other use: *Trichosteleum lamprophyllum* (Mitten) Buck, 1983.

A. longirostre (Bridel) Buck, Brittonia 35: 311. 1983.
Basionym: *Leskea longirostris* Bridel, 1827.

**A. nipponense* Sakurai, Bot. Mag. (Tokyo) 64: 197. 1951.
*illegitimate, type of earlier name included (Article 63.1).
Correct name: *Acroporium flagelliferum* Sakurai, 1934.
Other use: *Pylaisiopsis nipponensis* Seki, 1968.

A. pocsii Bizot, Acta Bot. Acad. Sci. Hung. 18: 13. f. 4: 1-2. 1973.
Type: Cameroun. Mt. Cameroun, 1400 m, *Balazs 75*. Holotype: DI; isotype: EGR.

A. savesianum Tixier, Cryptog. Bryol. Lichénol. 7: 226. f. 1. 1986.
Type: New Caledonia. Mont Atso, *Saves 34*. Holotype: PC. Paratype cited.

A. ulicinum (Mitten) H. Crum, Bryologist 89: 26. 1986.
Basionym: *Sematophyllum ulicinum* Mitten, 1869.

A. yakushimense Sakurai, Bot. Mag. (Tokyo) 47: 342. 1933.
Other use: *Myurium rufescens* subsp. *yakushimense* (Sakurai) Maschke, 1976, *Oedicladium rufescens* var. *yakushimense* (Sakurai) Iwatsuki, 1979.

Aerobryidium Fleischer ex Brotherus, 1906.

A. laosiense (Brotherus & Paris) Lin Shan-Hsiung, Yushania 5: 26. 1988, "*laosiensis*."
Basionym: *Aerobryopsis laosiensis* Brotherus & Paris, 1908.

A. levieri (Renauld & Cardot) Lin Shan-Hsiung, Yushania 5: 26. 1988.
Basionym: *Meteorium levieri* Renauld & Cardot, 1902-03 [1905].

A. subpiligerum (Hampe) Cardot in Grandidier, 1915.

A. subpiligerum var. *majus* (Renauld & Cardot) Wijk & Margadant, Taxon 14: 196. 1965.
Basionym: *Aerobryum pseudocapense* var. *majus* Renauld & Cardot, 1902-03 [1905].

**A. undulatopiliferum* (C. Müller) Noguchi, Bull. Natl. Sci. Mus. 9: 370. 1966.
*invalid, basionym invalid (Article 33.2).

A. wallichii (Bridel) C. C. Townsend, J. Bryol. 10: 135. 1979.
Basionym: *Hypnum wallichii* Bridel, 1827.

Aerobryopsis Fleischer, 1905.
A. auriculata Coppey ex Thériot, Bull. Soc. Sci. Nancy, ser. 4, 2(6): 711. f. 1-4. 1926.
Other use: *Neonoguchia auriculata* (Coppey ex Thériot) Lin Shan-Hsiung, 1988.
A. brevicuspis Brotherus, Symb. Sin. 4: 82. 1929, "*brevicuspes*."
Other use: *Pseudobarbella brevicuspis* (Brotherus) Noguchi, 1968.
A. laosiensis Brotherus & Paris, Rev. Bryol. 35: 51. 1908.
Other use: *Aerobryidium laosiense* (Brotherus & Paris) Lin Shan-Hsiung, 1988, *Pseudobarbella laosiensis* (Brotherus & Paris) Noguchi, 1976.
A. scariosa E. B. Bartram, Philipp. J. Sci. 68: 223. f. 275. 1939.
Other use: *Aerobryopsis subdivergens* subsp. *scariosa* (E. B. Bartram) Noguchi, 1976.
A. subdivergens (Brotherus) Brotherus, 1906.
A. subdivergens subsp. *scariosa* (E. B. Bartram) Noguchi, J. Hattori Bot. Lab. 41: 301. 1976.
Basionym: *Aerobryopsis scariosa* E. B. Bartram, 1939.

Aerobryum Dozy & Molkenboer, 1851.
A. javense (Fleischer) Manuel, Lindbergia 4: 54. 1977, "*javensis*."
Basionym: *Meteoriopsis javensis* Fleischer, 1907 [1908].
A. pseudocapense (Ångström) Bescherelle, 1880.
A. pseudocapense var. *majus* Renauld & Cardot, Bull. Soc. Roy. Bot. Belgique 41(1): 77. 1902-03 [1905].
Other use: *Aerobryidium subpiligerum* var. *majus* (Renauld & Cardot) Wijk & Margadant, 1965.

***Allioniella** Brotherus, Oefvers. Forh. Finska Vetensk.-Soc. 53A(13): 1. 1911.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Allioniella* Rydberg, 1902.
Correct name: *Allioniellopsis* Ochyra, 1982.
A. cryphaeoides Brotherus, Oefers. Förh. Finska Vetensk.-Soc. 53A(13): 1. f. 1-22. 1911.
Other use: *Allioniellopsis cryphaeoides* (Brotherus) Ochyra, 1982.

Allioniellopsis Ochyra, J. Bryol. 12: 31. 1982.
Replaced name: *Allioniella* Brotherus, 1911.
Blocking name: *Allioniella* Rydberg, 1902.
A. cryphaeoides (Brotherus) Ochyra, J. Bryol. 12: 31. 1982.
Basionym: *Allioniella cryphaeoides* Brotherus, 1911.

***Allorgea** Ando, Rev. Bryol. Lichénol. 39: 530. 1973 [1974].
*illegitimate, later homonym (Article 64.1).
Earlier name: *Allorgeia* Gauthier-Lievre, 1958.
Correct name: *Andoa* Ochyra, 1982.
Type: *Hypnum berthelotianum* Montagne, *A. berthelotiana* (Montagne) Ando, holotype.
Original placement: Hypnaceae.
A. berthelotiana (Montagne in Webb & Berthelot) Ando, Rev. Bryol. Lichénol. 39: 531. 1973 [1974].
Basionym: *Hypnum berthelotianum* Montagne in Webb & Berthelot, 1840.

Aloina Kindberg, 1882, conserved name.
A. apiculata (E. B. Bartram) Delgadillo M., Bryologist 76: 273. 1973.
Basionym: *Aloinella apiculata* E. B. Bartram, 1936.
A. bifrons (De Notaris) Delgadillo M., Bryologist 76: 273. 1973.
Basionym: *Tortula bifrons* De Notaris, 1838.
A. cornifolia Delgadillo M., Bryologist 78: 265. f. 62-65. 1975.
Type: China. Nei Mongol: Ordos, Poro-balgassum, *Potanin 27 p.p.* Holotype: H.
A. rigida (Hedwig) Limpricht, 1888.
A. rigida var. *obliquifolia* (C. Müller) Delgadillo M., Bryologist 78: 264. 1975.
Basionym: *Barbula obliquifolia* C. Müller, 1898.
A. roseae (R. S. Williams) Delgadillo M., Bryologist 76: 273. 1973.
Basionym: *Pterygoneurum roseae* R. S. Williams, 1915.

Aloinella Cardot, 1909.
A. andina Delgadillo M., Bryologist 76: 275. f. 1-6. 1973.
Type: Peru. Cerro Pasco (?), *Mathews 2409*. Holotype: NY; isotype: BM.
A. apiculata E. B. Bartram, J. Wash. Acad. Sci. 26: 9. f. 2. 1936.
Other use: *Aloina apiculata* (E. B. Bartram) Delgadillo M., 1973.
A. venezuelana Griffin, Bull. Torrey Bot. Club 102: 26. f. 1-6. 1975.
Type: Venezuela. Sierra Nevada de Merida, *Griffin & Ruiz-Teran 369*. Holotype: FLAS; isotypes: MEXU, TENN.

***Amblystegiella** Loeske, 1903.
*illegitimate, type of earlier name included (Article 63.1).
Correct name: *Platydictya* Berkeley, 1863.
A. fauriei Cardot, Bull. Soc. Bot. Genève, ser. 2, 5: 321. 1913.
Other use: *Platydictya fauriei* (Cardot) Iwatsuki & Noguchi, 1973.
A. madurensis Cardot & Potier de la Varde in Potier de la Varde, Rev. Bryol. 50: 78. 1923.
Other use: *Platydictya madurensis* (Cardot & Potier de la Varde in Potier de la Varde) R. S. Chopra, 1975.

Amblystegium W. P. Schimper in B.S.G., 1853.
A. subgen. *Conardia* (H. Robinson) A. J. E. Smith, J. Bryol. 11: 606. 1981 [1982].
Basionym: *Conardia* H. Robinson, 1976.
A. americanum Grout, Bryologist 13: 32. 1910.
Replaced name: *Amblystegium holzingeri* (Grout) Grout, 1909.
Blocking name: *Amblystegium holzingeri* Renauld & Cardot, 1894.
Other use: *Rhynchostegiella compacta* var. *americana* (Grout) H. Crum, Steere & L. E. Anderson, 1964.
**A. austropalustre* Brotherus in H. P. Ramsay, Taxon 29: 465. 1980.
*invalid, no Latin description (Article 36.1).
A. camisassae Tosco & Piovano, Allionia 4: 145. f. 22. 1956.
Note: not in Index Muscorum.
A. chilense Lorentz, Bot. Zeitung (Berlin) 24: 188. 1866.
Other use: *Pseudoleskea chilensis* (Lorentz) Ochyra, 1987.
A. densissimum Cardot, Rev. Bryol. 27: 46. 1900.
Other use: *Platydictya densissima* (Cardot) H. Robinson, 1972.
A. elodes Lindberg in C. J. Hartman, Handb. Skand. Fl. (ed. 10) 2: 3. 1871.
Replaced name: *Hypnum elodes* Spruce, 1845.
Blocking name: *Hypnum elodes* Weber & D. Mohr, 1807.
Other use: *Campyliadelphus elodes* (Lindberg in C. J. Hartman) Kanda, 1975 [1976].
Note: new name, based on adoption of earlier epithet (Article 72.Note 1).
A. filicinum (Hedwig) De Notaris, 1867.
A. filicinum var. *subsimplex* Renauld in Husnot, Muscol. Gall. 362. 1894.
Other use: *Cratoneuron filicinum* var. *subsimplex* (Renauld in Husnot) Wijk & Margadant, 1965.
A. fluviatile (Hedwig) W. P. Schimper in B.S.G., 1853.
A. fluviatile var. *julaceum* Buysson, Étude Gen. Amblystegium 2: 9. 1889.
Other use: *Hygroamblystegium fluviatile* var. *julaceum* (Buysson) Wijk & Margadant, 1965.
A. fluviatile var. *noterophilum* (Sullivant & Lesquereux ex Sullivant) Flowers, Bryologist 76: 286. 1973.
Basionym: *Hypnum noterophilum* Sullivant & Lesquereux ex Sullivant, 1856 [1857].
A. humile (Palisot de Beauvois) Crundwell, J. Bryol. 11: 603. 1981 [1982].
Basionym: *Hypnum humile* Palisot de Beauvois, 1805.
A. irriguum (W. J. Hooker & Wilson) W. P. Schimper in B.S.G., 1855.
A. irriguum var. *spinifolium* W. P. Schimper, Syn. Musc. Eur. (ed. 2) 2: 713. 1876.
Other use: *Amblystegium tenax* var. *spinifolium* (W. P. Schimper) H. Crum & L. E. Anderson, 1981.
A. jungermannioides (Bridel) A. J. E. Smith, J. Bryol. 11: 605. 1981 [1982].
Basionym: *Hypnum jungermannioides* Bridel, 1812.
Note: invalid, basionym not cited (Article 33.2), in Boros in R. Soó, Magyar Fl. 478. 1964.

Amblystegium, continued.

A. longicuspis Lindberg & H. Arnell, Kongl. Svenska Vetensk. Acad. Handl. 23(10): 123. 1890.
Other use: *Campylium longicuspis* (Lindberg & H. Arnell) Hedenäs, 1989.

A. nitidulum Brotherus, Oefers. Förh. Finska Vetensk.-Soc. 62A(9): 35. 1921.
Other use: *Brachythecium nitidulum* (Brotherus) Noguchi, 1980.

A. polygamum W. P. Schimper in B.S.G., Bryol. Eur. fasc. 55-56. Monogr. 16. pl. 10 (6: 60. pl. 572). 1853.
Other use: *Campyliadelphus polygamus* (W. P. Schimper in B.S.G.) Kanda, 1975 [1976].

A. riparium (Hedwig) W. P. Schimper in B.S.G., 1853.

A. riparium fo. *fluitans* (Lesquereux & T. P. James) Flowers, Bryologist 76: 286. 1973.
Basionym: *Hypnum riparium* var. *fluitans* Lesquereux & T. P. James, 1884.

A. riparium var. *obtusum* Grout, N. Amer. Musci Pleurocarpi 471. 1916.
Note: not in Index Muscorum.

A. rishiriense Kanda, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 15: 218. f. 8: 1-13; 9. 1975 [1976].
Type: Japan [Hokkaido]. NL-54-17, Rishirito, Himenuma, 140 m, *Kanda 8519A*. Holotype: HIRO.

A. spuriosubtile Brotherus & Paris, Rev. Bryol. 31: 94. 1904.
Other use: *Orthoamblystegium spuriosubtile* (Brotherus & Paris) Kanda & Noguchi, 1982.

A. squarrosulum Bescherelle in Cardot, Bull. Soc. Bot. Genève 5: 320. 1913.
Other use: *Campylium squarrosulum* (Bescherelle in Cardot) Kanda, 1975 [1976].

A. tenax (Hedwig) C. E. O. Jensen, 1939.

A. tenax var. *spinifolium* (W. P. Schimper) H. Crum & L. E. Anderson, Mosses E. N. Amer. 2: 929. 1981.
Basionym: *Amblystegium irriguum* var. *spinifolium* W. P. Schimper, 1876.

A. torrentium Bescherelle, Bull. Soc. Bot. France 45: 125. 1898.
Other use: *Taxiphyllum torrentium* (Bescherelle) Buck, 1987.

Amblytropis (Mitten) Brotherus, 1907.

A. pocsii Duarte, Acta Bot. Cub. 13: 1. f. 1. 1982.
Type: Cuba. Sierra Maestra: Loma Subida Albear, cerca Pico La Bayamesa, 1300-1400 m, *Pócs 9066/cc*. Holotype: HAC; isotype: BP.

Amphidium W. P. Schimper, 1856, conserved name.

A. tortuosum (Hornschuch) H. Robinson, Smithsonian Contr. Bot. 27: 20. 1975.
Basionym: *Syrrhopodon tortuosus* Hornschuch, 1841.

Anacalypta Röhling ex Léman, 1816.

A. paraguensis Bescherelle, Mém. Soc. Sci. Nat. Cherbourg 21: 261. 1877.
Other use: *Uleastrum paraguense* (Bescherelle) Buck, 1985.

Anacamptodon Bridel, 1818 [1819].
A. compactus (Thériot) Buck, J. Hattori Bot. Lab. 47: 49. 1980.
Basionym: *Helicodontium compactum* Thériot, 1932.
A. cubensis (Sullivant) Mitten, 1869.
A. cubensis var. *latifolius* Buck & H. Crum, J. Hattori Bot. Lab. 44: 363. f. 29-30. 1978.
Type: Bolivia. Apolo, 1500 m, *Williams 1994*. Holotype: NY; isotype: MICH.
A. marginatus (Dixon in Dixon & H. A. Wager) Buck, J. Hattori Bot. Lab. 47: 52. 1980.
Basionym: *Hypnofabronia marginata* Dixon in Dixon & H. A. Wager, 1930 [1929].
A. mexicanus Buck & H. Crum, J. Hattori Bot. Lab. 44: 363. f. 31-36. 1978.
Type: Mexico. Durango: 40 km W of El Salto, 8850 feet, *Sharp 1874*. Holotype: MICH.
A. minimus Buck, J. Hattori Bot. Lab. 47: 49. f. 1-5. 1980.
Type: Zaire. Between Kilo and Grumu, *Bequaert 491*. Holotype: BM; isotype: NY.

Anacolia W. P. Schimper, 1876, conserved name.
A. aurescens (Dixon) Iwatsuki, J. Hattori Bot. Lab. 32: 278. 1969.
Basionym: *Bartramia aurescens* Dixon, 1935.
A. breutelii (W. P. Schimper ex C. Müller) Magill, Fl. S. Africa, Bryophyta, Mosses 2: 411. 1987.
Basionym: *Bartramia breutelii* W. P. Schimper ex C. Müller, 1858.
A. breutelii var. *squarrifolia* (Sim) Magill, Fl. S. Africa, Bryophyta, Mosses 2: 412. 1987.
Basionym: *Bartramia squarrifolia* Sim, 1926.
A. campylopus (W. P. Schimper in C. Müller) Fransen, Lindbergia 14: 31. 1988.
Basionym: *Bartramia campylopus* W. P. Schimper in C. Müller, 1851.
A. sinensis Brotherus, Akad. Wiss. Wien Sitzungsber., Math.-Naturwiss. Kl., Abt. 1, 133: 570. 1924.
Other use: *Flowersia sinensis* (Brotherus) Griffin & Buck, 1989.

Ancistrodes Hampe, 1867.
A. genuflexa (C. Müller) Crosby, Bryologist 79: 247. 1976.
Basionym: *Pilotrichum genuflexum* C. Müller, 1844 [1845].

Andoa Ochyra, J. Bryol. 12: 31. 1982.
Replaced name: *Allorgea* Ando, 1974.
Blocking name: *Allorgeia* Gauthier-Lievre, 1958.
A. berthelotiana (Montagne in Webb & Berthelot) Ochyra, J. Bryol. 12: 31. 1982.
Basionym: *Hypnum berthelotianum* Montagne in Webb & Berthelot, 1840.

Andreaea Hedwig, 1801.
A. sect. *Depressinerves* Schultze-Motel, Willdenowia 6: 30. 1970.
Type: *A. depressinervis* Cardot, holotype.

Andreaea, continued.

A. sect. *Nitidae* Schultze-Motel, Willdenowia 6: 29. 1970.
Type: *A. nitida* J. D. Hooker & Wilson, holotype.

A. angustata Lindberg ex Limpricht, Laubm. Deutschl. 1: 144. 1885.
Other use: *Andreaea blyttii* subsp. *angustata* (Lindberg ex Limpricht) Schultze-Motel, 1968.

A. bistratosa Magill, Fl. S. Africa, Bryophyta, Mosses 1: 37. f. 7: 1-10. 1981 [1982].
Type: South Africa. Cape: Schurweberg, 1400 m, *Esterhuysen 20601*. Holotype: BOL; isotypes: MO, PRE.

A. blyttii W. P. Schimper in B.S.G., 1855.

A. blyttii subsp. *angustata* (Lindberg ex Limpricht) Schultze-Motel, Nova Hedwigia 16: 460. 1968.
Basionym: *Andreaea angustata* Lindberg ex Limpricht, 1885.

A. crassinervia Bruch, 1832.

A. crassinervia var. *dentata* (Culmann) Schultze-Motel, Herzogia 1: 69. 1968.
Basionym: *Andreaea huntii* var. *dentata* Culmann, 1924.

A. fauriei Bescherelle, Ann. Sci. Nat. Bot., ser. 7, 17: 392. 1893.
Other use: *Andreaea rupestris* subsp. *fauriei* (Bescherelle) Schultze-Motel, 1968.

A. frigida Hübener, Hepaticol. Germ. 305. 1834.
Other use: *Andreaea rothii* subsp. *frigida* (Hübener) Schultze-Motel, 1968.

A. fuegiana (Cardot) S. W. Greene, Brit. Antarct. Surv. Bull. 31: 109. 1972 [1973].
Basionym: *Neuroloma fuegianum* Cardot, 1911.
Note: invalid, basionym not cited (Article 33.2), in Rev. Bryol. Lichénol 36: 140. 1968 [1969].

A. gainii Cardot, 1911.

**A. gainii* var. *parallela* (C. Müller) S. W. Greene, Rev. Bryol. Lichénol. 36: 142. 1968 [1969].
*invalid, basionym not cited (Article 33.2).

A. hartmannii Thedenius, Bot. Not. 1849: 77. f. 1-17, 23-26. 1849, "*hartmanni*."
Other use: *Andreaea obovata* var. *hartmanii* (Thedenius) Nyholm, 1969.

A. hohuanensis Chuang Ching-chang, J. Hattori Bot. Lab. 37: 427. f. 3. 1973.
Type: China. Taiwan: Nantou, Mt. Ho-huan-shan, 3200 m, *Chuang 5914*. Holotype: UBC.

A. huntii Limpricht, 1885.

A. huntii var. *dentata* Culmann, Rev. Bryol. 51: 38. 1924.
Other use: *Andreaea crassinervia* var. *dentata* (Culmann) Schultze-Motel, 1968.

A. kashyapii Dixon ex Vohra & Wadhwa, Bull. Bot. Surv. India 6: 321. f. 1-7. 1964.
Type: China. Xizang: Manasarowar, in Tibet Occidental, 4750 m, *Kashyap s.n.* Holotype: BM.

Andreaea, continued.

A. megistospora B. M. Murray, Bryologist 90: 18. f. 9-23, 25-28. 1987.
Type: United Kingdom. Scotland: Main Argyll (vice-county 98), Meeting of Three Waters, Pass of Glencoe, *Murray & Long*, 1982. Holotype: E; isotype: ALA. Other indicated distribution: Canada (British Columbia), Ireland, Norway, United Kingdom (England, Wales), U.S.A. (Alaska).
Original placement: sect. *Nerviae*.

A. megistospora subsp. *epapillosa* B. M. Murray, Bryologist 90: 23. f. 24, 29-32. 1987.
Type: Canada. British Columbia: Queen Charlotte Islands, W. Moresby I., Sunday Inlet, *Schofield 31437*. Holotype: UBC. Other indicated distribution: U.S.A. (Alaska).
Other use: *Andreaea megistospora* var. *epapillosa* (B. M. Murray) H. Crum & L. E. Anderson, 1989.

A. megistospora var. *epapillosa* (B. M. Murray) H. Crum & L. E. Anderson, Bryologist 92: 533. 1989.
Basionym: *Andreaea megistospora* subsp. *epapillosa* B. M. Murray, 1987.

A. novoguinensis E. B. Bartram, Contr. U.S. Natl. Herb. 37: 44. 1965.
Type: Papua New Guinea. Mt. Wilhelm, 14,700 feet, *Deusen & Collins 30029*. Holotype: US.

A. obovata Thedenius, 1849.

A. obovata var. *hartmanii* (Thedenius) Nyholm, Ill. Moss Fl. Fennoscandia. II. Musci 691. 1969.
Basionym: *Andreaea hartmannii* Thedenius, 1849.

**A. obovata* fo. *obtusifolia* (C. E. O. Jensen) Nyholm, Ill. Moss Fl. Fennoscandia. II. Musci 691. 1969.
*invalid, basionym not cited (Article 33.2).

A. obovata var. *papillosa* (Lindberg) Nyholm, Ill. Moss Fl. Fennoscandia. II. Musci 691. 1969.
Basionym: *Andreaea papillosa* Lindberg, 1866 [1867].

A. obovata var. *sparsifolia* (J. E. Zetterstedt) Nyholm, Ill. Moss Fl. Fennoscandia. II. Musci 691. 1969.
Basionym: *Andreaea sparsifolia* J. E. Zetterstedt, 1855.

A. papillosa Lindberg, Öfvers. Förh. Kongl. Svenska Vetensk.-Akad. 23: 557. 1866 [1867].
Other use: *Andreaea obovata* var. *papillosa* (Lindberg) Nyholm, 1969.

A. petrophila Fürnrohr, 1827.

A. petrophila var. *rubicunda* E. B. Bartram, Philipp. J. Sci. 61: 235. 1936.
Other use: *Andreaea rupestris* var. *rubicunda* (E. B. Bartram) Iwatsuki, 1969.

A. rothii Weber & D. Mohr, 1807.

A. rothii subsp. *frigida* (Hübener) Schultze-Motel, Herzogia 1: 69. 1968.
Basionym: *Andreaea frigida* Hübener, 1834.

Andreaea, continued.

A. rupestris Hedwig, 1801.

A. rupestris subsp. *fauriei* (Bescherelle) Schultze-Motel, Willdenowia 5: 24. 1968.

Basionym: *Andreaea fauriei* Bescherelle, 1893.

A. rupestris var. *rubicunda* (E. B. Bartram) Iwatsuki, J. Hattori Bot. Lab. 32: 269. 1969.

Basionym: *Andreaea petrophila* var. *rubicunda* E. B. Bartram, 1936.

A. schofieldiana B. M. Murray, Bryologist 90: 15. f. 1-7. 1987.

Type: Canada. British Columbia: Vancouver Island, Strathcona Provincial Park, Forbidden Plateau, trail to summit of Mt. Becher, *Halbert 4231*. Holotype: UBC. Other indicated distribution: U.S.A. (California).

Original placement: sect. *Nerviae*.

A. sinuosa B. M. Murray, Bryologist 89: 189. f. 1-16. 1986 [1987].

Type: Canada. British Columbia: West Vancouver, Cypress Bowl area, *Schofield 74208*. Holotype: UBC. Other indicated distribution: U.S.A. (Alaska).

A. sparsifolia J. E. Zetterstedt, Monogr. Andreaear. Scand. Tent. 32. 1855.

Other use: *Andreaea obovata* var. *sparsifolia* (J. E. Zetterstedt) Nyholm, 1969.

A. tasmanica Rodway, Pap. & Proc. Roy. Soc. Tasmania 1916: 95. 1916.

Note: not in Index Muscorum.

A. urophylla H. Robinson in H. Robinson, Holm-Nielsen & Lojtnant, Lindbergia 4: 107. f. 2. 1977.

Type: Ecuador. Pichincha: base of Volcan Sincholahua, 4200 m, *Holm-Nielsen et al. 6619*. Holotype: AAU; isotype: US.

Andreaeobryum Steere & B. M. Murray, Phytologia 33: 407. 1976.

Type: *A. macrosporum* Steere & B. M. Murray, holotype.

Original placement: Andreaeobryaceae.

A. macrosporum Steere & B. M. Murray, Phytologia 33: 407. 1976.

Type: U.S.A. Alaska: Brooks Range, Franklin Mountains, Arctic National Wildlife Range, Lake Peters, just NW of Mt. Chamberlain, valley at NE end of lake, 69°20' N, 145° W, *Murray 6713*. Holotype: NY; isotype: ALA. Other indicated distribution: Canada (Northwest Territories, Yukon).

Anisothecium Mitten, 1869.

A. rotundatum Brotherus, Symb. Sin. 4: 15. 1929.

Other use: *Dicranella rotundata* (Brotherus) Takaki, 1968.

A. schreberianum (Hedwig) Dixon, 1934.

A. schreberianum fo. *integrifolium* Tosco, Webbia 28: 280. 1973.

Type: Italy. Gran Paradiso, Parco Nazionale, Val di cogne, Cogne, dirupi di Sylvenoire, *Tosco*, 1955. Holotype: herb. Tosco.

Anisothecium, continued.

A. staphylinum (H. Whitehouse) Sipman, Rubers & Riemann, Lindbergia 1: 217. 1972.
Basionym: *Dicranella staphylina* H. Whitehouse, 1969.

Anoectangium Schwägrichen, 1811, conserved name.

A. crustatum J. Fröhlich, Ann. Naturhist. Mus. Wien 66: 35. f. 5-8. 1963.
Type: Greece. Epirus: Berges Mitsikeli bei Joannina, 600-700 m, *Rechinger*, 1961. Holotype: W.

A. ferrugineum Bescherelle, Ann. Sci. Nat. Bot., ser. 7, 17: 329. 1893.
Other use: *Anomodon rugelii* var. *ferrugineus* (Bescherelle) Iwatsuki, 1963.

A. laetum Renauld & Cardot, 1900.

A. laetum fo. *henryi* Tixier, Rev. Bryol. Lichénol. 34: 132 f. 3. 1966.
Type: Vietnam. Capa, 1450 m, *Petelot 125*. Herbarium not specified by author.

A. pallidicaule Dixon, Anniv. Vol. Bot. Gard. Calcutta 181. 1942.
Note: not in Index Muscorum.

A. pleuroweisioides J. Fröhlich, Ann. Naturhist. Mus. Wien 67: 151. 1964.
Type: Afghanistan. Mazar-i Sharif, in faucibus fluvii Balkha supra Aq Kupruk, *Rechinger 19655a*. Holotype: W. Paratypes cited.

A. rubrigemmium Hoe & H. Crum, Bryologist 74: 485. f. 6-9. 1971 [1972].
Type: U.S.A. Hawaii: Maui, ca. 6400 feet, vicinity of base camp no. 3, Kipahulu Valley, *Hoe 17630*. Holotype: MICH; isotypes: BISH, herb. Hoe.
Other use: *Zygodon rubrigemmius* (Hoe & H. Crum) Zander & Vitt, 1979.

A. taeniatifolium (Herzog) M. O. Hill, J. Bryol. 11: 600. 1981.
Basionym: *Molendoa taeniatifolia* Herzog, 1943.

A. tenerrimum C. Müller, Bot. Zeitung (Berlin) 5: 801. 1847.
Other use: *Gymnostomum tenerrimum* (C. Müller) Wijk & Margadant, 1968.

A. warburgii Crundwell & M. O. Hill, J. Bryol. 9: 435. f. 1. 1977.
Type: United Kingdom. Scotland: Argyll, Clencoe, Meall Mor, 380 m, *Paton*, 1976. Holotype: GL; isotypes: E, S. Other indicated distribution: United Kingdom (Wales).

Anomobryopsis Cardot, 1911.

A. tereticaulis Cardot, Rev. Bryol. 38: 8. 1911.
Other use: *Anomobryum tereticaule* (Cardot) A. J. Shaw, 1984.

Anomobryum W. P. Schimper, 1860.

A. alboimbricatum (Ochi) T. Koponen & Norris, Ann. Bot. Fenn. 21: 288. 1984.
Basionym: *Bryum alboimbricatum* Ochi, 1980.

A. alpinum Zang Mu & Li Xing-jiang in Li Xing-jiang et al., Bryofl. Xizang 164. f. 71: 1-10. 1985.
Type: China. Xizang: Zhong-Da, *Zang 1726*. Holotype: HKAS.

A. brachymenioides Dixon & Potier de la Varde, Ann. Cryptog. Exot. 3: 177. pl. 3: f. 4. 1930.
Other use: *Bryum brachymenioides* (Dixon & Potier de la Varde) Ochi, 1972.

Anomobryum, continued.

A. bulbiferum E. B. Bartram, Lloydia 5: 262. f. 17. 1942.
Other use: *Bryum rubrobulbiferum* Ochi, 1985.

A. erectum B. C. Tan & T. Koponen, Cryptog. Bryol. Lichénol. 10: 239. 1989.
Replaced name: *Bryum erectum* Brotherus, 1908.
Blocking name: *Bryum erectum* W. J. Hooker in Kunth, 1822.
Note: new name, based on adoption of earlier epithet (Article 72.Note 1), "*Anobryum*."

A. fuji-alpinum Takaki, J. Hattori Bot. Lab. 6: 2. f. 1. 1951.
Other use: *Aongstroemia fuji-alpina* (Takaki) Iwatsuki & A. J. Sharp, 1967, *Aongstroemia orientalis* var. *fuji-alpina* (Takaki) Takaki, 1962.

A. hyalinum T. Koponen & Norris, Ann. Bot. Fenn. 21: 267. f. 1: g-l. 1984.
Type: Papua New Guinea. Morobe: Mt. Sarawaket Southern Range, L. Gwan, 3400 m, *Koponen 32257*. Holotype: H; isotypes: HSC, LAE.
Other use: *Bryum hyalinum* (T. Koponen & Norris) Ochi, 1985.

A. latirete Dixon, J. Bot. 76: 255. f. 10. 1938.
Other use: *Bryum latirete* (Dixon) Ochi, 1972.

A. laxirete Cardot & Brotherus, Kongl. Svenska Vetensk. Acad. Handl. 63(10): 37. pl. 2: f. 12: a-e. 1923.
Other use: *Bryum microimbricatum* Ochi, 1982.

A. marginatum Dixon & Badhwar, Rec. Bot. Surv. India 12: 173. 1938.
Other use: *Bryum marginatum* (Dixon & Badhwar) Ochi, 1972.

A. ochianum A. J. Shaw, J. Hattori Bot. Lab. 57: 291. f. 27-39. 1984.
Type: Uruguay. Ruta 5, Curticeiras Rivera, *Garcia Zorron 2113*. Holotype: US.

A. ochii T. Koponen & Norris, Ann. Bot. Fenn. 21: 269. f. 1: t-z. 1984.
Type: Papua New Guinea. Morobe: along valley of Wantoap River, ca. 8 km NNW of Wantoat, 1400-1550 m, *Koponen 29526*. Holotype: H; isotype: LAE.
Other use: *Bryum ochii* (T. Koponen & Norris) Ochi, 1985.

A. pellucidum Dixon & Badhwar, Rec. Bot. Surv. India 12: 173. 1938.
Other use: *Bryum himalayanopellucidum* Ochi, 1985, *Bryum pellucidum* (Dixon & Badhwar) Ochi, 1972.

A. plicatum Cardot, Rev. Bryol. 36: 112. 1909.
Other use: *Bryum plicatum* (Cardot) Ochi, 1978.

A. polymorphum Dixon, Notes Roy. Bot. Gard. Edinburgh 19: 290. f. 9. 1938.
Other use: *Bryum indicopolymorphum* Ochi, 1985, *Bryum polymorphum* (Dixon) Ochi, 1972.

A. polysetum A. J. Shaw, J. Bryol. 14: 99. f. 1. 1986.
Type: Mexico. Durango: Hwy. 40, ca. 6.6 km W La Ciudad, 2713 m, *Bowers 5274a*. Holotype: TENN.

A. robustum Brotherus in Herzog, Biblioth. Bot. 87: 83. 1916.
Other use: *Bryum rotundifolium* Ochi, 1980.

A. sharpii A. J. Shaw, J. Hattori Bot. Lab. 57: 289. f. 15-26. 1984.
Type: Mexico. Puebla: toward La Cuevas on Ixtaccihuati, above Huejotziongo, 12,300 feet, *Sharp 4304a*. Holotype: MICH.

Anomobryum, continued.

A. steerei A. J. Shaw, Mem. New York Bot. Gard. 45: 687. f. 12-18. 1987.
Type: Bolivia. Oruro: Atahyuallap, Cerro Tata Sabaya, W of Laguna Coipasa, *Lewis 79-2014B*. Holotype: F.

A. tereticaule (Cardot) A. J. Shaw, J. Hattori Bot. Lab. 57: 296. 1984, "*tereticaulis*."
Basionym: *Anomobryopsis tereticaulis* Cardot, 1911.

A. werthii Brotherus in Drygalski, Deut. Südpolar-Exped. 1901-1903 8(1): 88. f. 2. 1906.
Other use: *Bryum werthii* (Brotherus in Drygalski) Ochi, 1972.

A. worthleyi H. Robinson, Bryologist 70: 320. f. 18-20. 1967.
Type: Peru. Cuzco: ca. 2000 feet above the Urubamba River near Macchu Picchu, ca. 7000 feet, *Worthley*, 1962. Holotype: US.

Anomodon W. J. Hooker & Taylor, 1818.

A. sect. *Abbreviati* Iwatsuki, J. Hattori Bot. Lab. 26: 45. 1963.
Type: *A. abbreviatus* Mitten, holotype.

A. sect. *Auriculati* Iwatsuki, J. Hattori Bot. Lab. 26: 48. 1963.
Type: *Hypnum ruglii* C. Müller, *A. rugelii* (C. Müller) Keissler, holotype.

A. acutifolius Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 126. 1859.
Other use: *Herpetineuron acutifolium* (Mitten) Granzow-de la Cerda, 1989.

A. apiculatus Sullivant in A. Gray, 1856.

A. apiculatus fo. *cavernarum* Grom, Acta Bot. Croat. 26-27: 250. 1967-68 [1968].
Type: Yugoslavia. In caverna prope Skocjan, *Wraber 291*. Holotype: herb. Grom.

A. apiculatus fo. *robustus* Grom, Acta Bot. Croat. 26-27: 250. 1967-68 [1968].
Type: Yugoslavia. Prope vicum Vrabce in carso slovenico, *Wraber 680*. Holotype: herb. Grom.

A. dentatus Gao Chien, Fl. Musc. Chin. Boreali-Orient. 380. f. 165: 2, 170: 5-10. 1977.
Type: China. Jilin: Tschangbaishan, *Gao 1231*. Holotype: FPI.

A. integerrimus Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 126. 1859.
Other use: *Anomodon minor* subsp. *integerrimus* (Mitten) Iwatsuki, 1963.

A. lagoensis Hampe, Vidensk. Meddel. Dansk Naturhist. Foren. Kjøbenhavn, ser. 3, 2: 283. 1870.
Other use: *Leskea lagoensis* (Hampe) Gier, 1978.

A. minor (Hedwig) Fürnrohr, 1829.

A. minor subsp. *integerrimus* (Mitten) Iwatsuki, J. Hattori Bot. Lab. 26: 41. 1963.
Basionym: *Anomodon integerrimus* Mitten, 1859.

A. rugelii (C. Müller) Keissler, 1900.

A. rugelii var. *ferrugineus* (Bescherelle) Iwatsuki, J. Hattori Bot. Lab. 26: 51. 1963.
Basionym: *Anoectangium ferrugineum* Bescherelle, 1893.

Anomodon, continued.
A. scaberrimus Brotherus, Bih. Kongl. Svenksa Vetensk.-Akad. Handl. 21 Afd. (3): 65. 1895.
Other use: *Macrocoma scaberrima* (Brotherus) Vitt, 1979.
A. tasmanicus Brotherus, Oefers. Förh. Finska Vetensk.-Soc. 42: 121. 1899 [1900].
Other use: *Triquetrella tasmanica* (Brotherus) Granzow-de la Cerda, 1989.

Antitrichia Bridel, 1818.
A. curtipendula (Timm ex Hedwig) Bridel, 1819 [1818].
A. curtipendula subsp. *gigantea* (Sullivant & Lesquereux) Persson in Persson & Viereck, Lindbergia 9: 16. 1983.
Basionym: *Antitrichia curtipendula* var. *gigantea* Sullivant & Lesquereux, 1865.
A. curtipendula var. *gigantea* Sullivant & Lesquereux, Musci Bor.-Amer. (ed. 2) 59. 1865.
Other use: *Antitrichia curtipendula* subsp. *gigantea* (Sullivant & Lesquereux) Persson in Persson & Viereck, 1983.

Aongstroemia Bruch & W. P. Schimper in B.S.G., 1846, "*Angstroemia.*"
A. curviseta Hampe, Ann. Sci. Nat. Bot., ser. 5, 3: 355. 1865.
Other use: *Microcampylopus curvisetus* (Hampe) Giese & Frahm, 1986.
A. fuji-alpina (Takaki) Iwatsuki & A. J. Sharp, J. Hattori Bot. Lab. 30: 158. 1967.
Basionym: *Anomobryum fuji-alpinum* Takaki, 1951.
A. orientalis Mitten, 1891.
A. orientalis var. *fuji-alpina* (Takaki) Takaki, Acta Phytotax. Geobot. 20: 237. 1962.
Basionym: *Anomobryum fuji-alpinum* Takaki, 1951.
Note: not in Index Muscorum.

Aphanorrhegma Sullivant in A. Gray, 1848, "*Aphanorhegma.*"
A. magdalenae (Sloover) Ochyra, Acta Bot. Hung. 29: 178. 1983.
Basionym: *Physcomitrella magdalenae* Sloover, 1975.

Aptychella (Brotherus) Herzog, 1916.
A. chlorophyllosa (Herzog) Tixier, Rev. Bryol. Lichénol. 43: 421. 1977.
Basionym: *Aptychella proligera* var. *chlorophyllosa* Herzog, 1920.
A. glomeratopropagulifera (Toyama) Seki, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 12: 72. 1968.
Basionym: *Clastobryum glomeratopropaguliferum* Toyama, 1935.
A. muelleri Dixon, Ann. Bryol. 6: 32. 1933.
Other use: *Clastobryopsis muelleri* (Dixon) Tixier, 1977.
A. proligera (Brotherus) Herzog, 1916.
A. proligera var. *chlorophyllosa* Herzog, Biblioth. Bot. 88: 25. 1920.
Other use: *Aptychella chlorophyllosa* (Herzog) Tixier, 1977.

Aptychella, continued.
A. speciosa (Mitten) Tixier, Rev. Bryol. Lichénol. 43: 423. 1977.
Basionym: *Stereodon speciosus* Mitten, 1859.
A. subintegra Tixier, Rev. Bryol. Lichénol. 34: 160. f. 20: 1-8. 1966.
Type: Vietnam. Tam-Dao, 900-1000 m, *Demange*, 1926. Herbarium not specified by author.
A. tamdaoensis Tixier, Rev. Bryol. Lichénol. 34: 160. f. 20: 9-23. 1966.
Type: Vietnam. Tam-dao, 1000 m, *Demange*, 1925. Herbarium not specified by author.
A. tenuiramea (Mitten) Tixier, Rev. Bryol. Lichénol. 43: 423. 1977.
Basionym: *Stereodon tenuirameus* Mitten, 1859.

Aptychus (C. Müller) C. Müller, 1896.
A. apaloblastus C. Müller, Bull. Herb. Boissier 5: 212. 1897.
Other use: *Sematophyllum apaloblastum* (C. Müller) Buck, 1983.
A. chlorocormus C. Müller, Nuovo Giorn. Bot. Ital., n.s., 4: 152. 1897.
Other use: *Sematophyllum chlorocormum* (C. Müller) Buck, Churchill & Sastré-de Jesús in Churchill & Sastré-de Jesús, 1987 [1988].
A. lageniformis C. Müller, Bull. Herb. Boissier 6: 122. 1898.
Other use: *Donnellia lageniformis* (C. Müller) Buck, 1988.

***Arbuscula** H. Crum, Steere & L. E. Anderson, Bryologist 67: 163. 1964.
*illegitimate, type of earlier name included (Article 63.1).
Replaced name: *Thamnium* W. P. Schimper in B.S.G., 1852.
Blocking name: *Thamnium* Ventenat, 1799.
Correct name: *Thamnobryum* Nieuwland, 1917.
A. alleghaniensis (C. Müller) H. Crum, Steere & L. E. Anderson, Bryologist 67: 163. 1964, "*alleghaniense*."
Basionym: *Hypnum alleghaniense* C. Müller, 1851.
A. alopecura (Hedwig) H. Crum, Steere & L. E. Anderson, Bryologist 67: 163. 1964, "*alopecurum*."
Basionym: *Hypnum alopecurum* Hedwig, 1801.
A. leibergii (Britton) H. Crum, Steere & L. E. Anderson, Bryologist 67: 163. 1964.
Basionym: *Hypnum leibergii* Britton, 1889.

+**Archaeomnium** Britton, 1926.
+*A. arnoldianum* (Steere) LaMotte, Cat. Cenozoic Pl. N. Amer. 74. 1952.
Basionym: *Palaeohypnum arnoldianum* Steere, 1946.
Note: not in Index Muscorum.
+*A. brittoniae* (Steere) LaMotte, Cat. Cenozoic Pl. N. Amer. 74. 1952.
Basionym: *Palaeohypnum brittoniae* Steere, 1946.
Note: not in Index Muscorum.
+*A. brownii* (W. C. G. Kirchner) LaMotte, Cat. Cenozoic Pl. N. Amer. 74. 1952.
Basionym: *Hypnum brownii* W. C. G. Kirchner, 1898.
Note: not in Index Muscorum.

+**Archaeomnium**, continued.
+*A. knowltonii* (Britton) LaMotte, Cat. Cenozoic Pl. N. Amer. 74. 1952.
Basionym: *Rhynchostegium knowltonii* Britton, 1899.
Note: not in Index Muscorum.
+*A. patens* Britton in Knowlton, U.S. Geol. Surv. Prof. Pap. 140A: 24. pl. 8: f. 1-2. 1926.
Other use: *Hypnites patens* (Britton in Knowlton) N. G. Miller in R. J. Taylor & Leviton, 1980.

Archidiella Irmscher, Mitt. Inst. Allg. Bot. Hamburg 6: 340. 1926.
Other use: *Archidium* subgen. *Archidiella* (Irmscher) Snider, 1975.
A. dinteri Irmscher, Mitt. Inst. Allg. Bot. Hamburg 6: 340. 1926.
Other use: *Archidium dinteri* (Irmscher) Snider, 1975.

Archidium Bridel, 1827.
A. subgen. *Archidiella* (Irmscher) Snider, J. Hattori Bot. Lab. 39: 126. 1975.
Basionym: *Archidiella* Irmscher, 1926.
A. sect. *Nanarchidium* Snider, J. Hattori Bot. Lab. 39: 127. 1975.
Type: *Archidium hallii* var. *minus* Renauld & Cardot, *A. minus* (Renauld & Cardot) Snider, holotype.
A. acanthophyllum Snider, Bryologist 78: 152. f. 1-15, 37. 1975.
Type: South Africa. Transvaal: Kruger National Park, vicinity of Pretorius Kop, *Godfrey GH-1649b*. Holotype: DUKE; isotypes: FSU, NY, US. Other indicated distribution: Zaire.
A. acauloides Schwab, Bryologist 81: 330. f. 1-12. 1978.
Type: Mexico. Distrito Federal: Paso de Cortes, zwischen Vulkanen Popocatepetl und Ixtaccihuatl, 3650 m, *Schwab*, 1973. Holotype: B; isotypes: CINC, herb. Schwab.
Original placement: sect. *Phascoidea*.
A. andersonianum Snider, Bryologist 78: 158. f. 26-36, 39. 1975.
Type: South Africa. Cape of Good Hope, Stellenbosch, *Almborn*, 1966. Holotype: S-PA; isotype: LD.
A. brisbanicum Brotherus, Oefers. Förh. Finska Vetensk.-Soc. 35: 35. 1893.
Other use: *Eccremidium brisbanicum* (Brotherus) Steere & G. A. M. Scott, 1973 [1974], *Micromitrium brisbanicum* (Brotherus) Crosby, 1968.
A. clavatum Stone, Muelleria 2: 199. f. 58-60. pl. 25. 1973.
Type: Australia. Victoria: Mt. Tarrengower, near Maldon, *Stone 7033*. Holotype: MEL; isotypes: MELU, herb. Stone.
A. dinteri (Irmscher) Snider, J. Hattori Bot. Lab. 39: 126. 1975.
Basionym: *Archidiella dinteri* Irmscher, 1926.
A. ecklonii Hampe ex Mitten, J. Linn. Soc., Bot. 22: 299. 1886, "*eckloni*."
Other use: *Pleuridium ecklonii* (Hampe ex Mitten) Snider, 1975.
A. hallii Austin, 1877.
A. hallii var. *minus* Renauld & Cardot, Bot. Gaz. (Crawfordsville) 19: 237. 1894.
Other use: *Archidium minus* (Renauld & Cardot) Snider, 1975.

Archidium, continued.

A. minus (Renauld & Cardot) Snider, J. Hattori Bot. Lab. 39: 127. 1975.
Basionym: *Archidium hallii* var. *minus* Renauld & Cardot, 1894.

A. minutissimum Stone, J. Bryol. 13: 353. f. 1-2. 1985.
Type: Australia. Queensland: S of Cooktown, *Stone 22050*. Holotype: MEL.

A. muellerianum Snider, Bryologist 78: 154. f. 16-25, 38. 1975.
Type: South Africa., *Rehmann s.n.* (Musci Austro-Afr. 388). Holotype: S-PA.

A. stellatum Stone, Muelleria 2: 192. f. 55-57. pl. 23-24. 1973.
Type: Australia. Victoria: Mallee country near Neilborough, *Stone 30*. Holotype: MEL; isotypes: MELU, herb. Stone.

A. thalliferum Stone, J. Bryol. 13: 345. f. 1-3. 1985.
Type: Australia. Queensland: Lawn Hill Gorge Natl. Park, Island Stack, ca. 200 m, *Stone 22190*. Holotype: MEL; isotypes: BM, BRI, MELU.

A. wattsii (Brotherus) Stone, J. Bryol. 13: 153. 1984.
Basionym: *Splachnobryum wattsii* Brotherus, 1899 [1900].

Astomiopsis C. Müller, 1882.

A. exserta (E. B. Bartram) Snider, Bryologist 90: 316. 1987 [1988].
Basionym: *Pleuridium exsertum* E. B. Bartram, 1949.

A. kierneri (E. B. Bartram) Delgadillo M. & Cardenás-Soriano, Bryologist 87: 344. 1984 [1985].
Basionym: *Pleuridium kieneri* E. B. Bartram, 1949.

A. pacifica Buck & Landrum, Bryologist 80: 359. f. 1-6. 1977.
Type: Chile. Juan Fernandez Islands: Mas a Tierra, Cumberland Bay, trail to Mirador, *Landrum JF6*. Holotype: MICH; isotypes: BA, COLO, EIF, NY, US.

A. radiculosa (Herzog) Buck & Zander, Bryologist 83: 255. 1980.
Basionym: *Melophyllum radiculosum* Herzog, 1939.

**A. saint-pierrei* Thériot ex Buck, Brittonia 31: 488. f. 1-8. 1979.
*illegitimate, type of earlier name included (Article 63.1).
Earlier name: *Bryomanginia saint-pierrei* Thériot, 1931.
Type: Mexico. Mexico: Nevado de Toluca, 4000 m, *Saint-Pierre 1780*. Holotype: NY.

Astomum Hampe, 1837.

A. borbonicum Bizot & Onraedt ex Onraedt, Bull. Jard. Bot. Natl. Belgique 46: 356. f. 5. 1976.
Type: Reunion. Le Guillaume, St. Paul, 800 m, *Onraedt 69.R.1008*. Holotype: herb. Onraedt; isotypes: BR, herb. Bizot.
Note: invalid, holotype not indicated (Article 37.1), in Rev. Bryol. Lichénol 40: 116. 1974.

A. crispum (Hedwig) Hampe, 1837.

A. crispum var. *angustifolium* Baumgartner in Ginzberger, Denkschr. Kaiserl. Akad. Wiss., Math.- Naturwiss. Kl. 92: 323. 1915.
Other use: *Weissia longifolia* var. *angustifolia* (Baumgartner in Ginzberger) Crundwell & Nyholm, 1972.

Astomum, continued.
A. occidentale Flowers, Bryologist 76: 286. 1973.
Type: U.S.A. Utah: Millard Co., House Mts., Swasey Gulch, 6000 feet, *Flowers 2339*. Holotype: UT.
Other use: *Weissia occidentalis* (Flowers) Stoneburner, 1985 [1986].
A. perpusillum (C. Müller) Watts & Whitelegge, Proc. Linn. Soc. New South Wales 27: 62. 1902.
Basionym: *Phascum perpusillum* C. Müller, 1872.
Note: not in Index Muscorum.

***Astrophyllum** Lindberg, 1878.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Astrophyllum* Torrey, 1857.
A. confertidens Lindberg & H. Arnell, Kongl. Svenska Vetensk. Acad. Handl. 23(10): 17. 1890.
Other use: *Plagiomnium confertidens* (Lindberg & H. Arnell) T. Koponen, 1968.
A. curvatulum Lindberg, Bot. Centralbl. 6: 363. 1881 [June].
Other use: *Plagiomnium curvatulum* (Lindberg) Schljakov, 1982, *Plagiomnium medium* subsp. *curvatulum* (Lindberg) T. Koponen, 1968, *Plagiomnium medium* var. *curvatulum* (Lindberg) H. Crum & L. E. Anderson, 1989.

Atractylocarpus Mitten, 1869, conserved name.
A. longisetus (W. J. Hooker) E. B. Bartram, 1946.
A. longisetus var. *laxifolius* (Brotherus) Pursell, Bryologist 76: 476. 1973.
Basionym: *Dicranum longisetum* var. *laxifolium* Brotherus, 1901.
A. longisetus var. *meridensis* (Hampe) Pursell, Bryologist 76: 476. 1973, "*meridense*."
Basionym: *Dicranum longisetum* var. *meridense* Hampe, 1847.
A. madagascariensis (Thériot) Padberg & Frahm, Cryptog. Bryol. Lichénol. 6: 330. 1985.
Basionym: *Metzlerella madagascariensis* Thériot, 1926.
A. spiripes (C. Müller) F. J. Hermann, Bryologist 79: 129. 1976.
Basionym: *Dicranum spiripes* C. Müller, 1874.
A. stenocarpus (Wilson in Seemann) Zander, Bryologist 85: 128. 1982.
Basionym: *Trichostomum stenocarpum* Wilson in Seemann, 1856.
A. strictulus (C. Müller) Frahm, J. Hattori Bot. Lab. 44: 485. 1978.
Basionym: *Dicranum strictulum* C. Müller, 1874.

Atrichopsis Cardot, 1912.
A. compressa (J. D. Hooker & Wilson) G. L. Smith, Bull. Torrey Bot. Club 96: 62. 1969.
Basionym: *Polytrichum compressum* J. D. Hooker & Wilson, 1844.

Atrichum Palisot de Beauvois, 1804, conserved name.

A. altecristatum (Renauld & Cardot) Ireland, Canad. J. Bot. 47: 364. 1969.
Basionym: *Atrichum undulatum* var. *altecristatum* Renauld & Cardot, 1890.
Note: superfluous when published because *Catharinea mollis* Holzinger (1904) was included as a synonym; made correct by removing it in Canad. J. Bot. 48: 1987. 1970 (Article 63.3).

A. androgynum (C. Müller) Jaeger, 1875.

A. androgynum var. *borbonicum* (Bescherelle) Nyholm, Lindbergia 1: 26. 1971.
Basionym: *Atrichum borbonicum* Bescherelle, 1880.

A. androgynum var. *oerstedianum* (C. Müller) Nyholm, Lindbergia 1: 26. 1971.
Basionym: *Catharinea oerstediana* C. Müller, 1851.

A. anomalum Milde, Hedwigia 8: 161. 1869.
Other use: *Polytrichastrum longisetum* fo. *anomalum* (Milde) Schljakov, 1982, *Polytrichum longisetum* var. *anomalum* (Milde) G. L. Smith, 1969, *Polytrichum gracile* fo. *anomalum* (Milde) Osada, 1966.

A. borbonicum Bescherelle, Ann. Sci. Nat. Bot., ser. 6, 10: 249. 1880.
Other use: *Atrichum androgynum* var. *borbonicum* (Bescherelle) Nyholm, 1971.

A. cylindricum (Willdenow ex Weber) G. L. Smith, Brittonia 29: 371. 1977.
Basionym: *Polytrichum cylindricum* Willdenow ex Weber, 1810.

A. longifolium Cardot & Dixon ex Gangulee, Mosses E. India 1: 81. f. 33. 1969.
Type: India. Darjeeling, Sureil, ca. 2000 m, *Meebold 16633*. Holotype: BM.

A. nigricans (C. Müller ex Herzog) F. J. Hermann, Bryologist 79: 160. 1976.
Basionym: *Catharinea nigricans* C. Müller ex Herzog, 1916.

A. novae-guineae E. B. Bartram, Rev. Bryol. Lichénol. 30: 206. 1961.
Other use: *Oligotrichum novae-guineae* (E. B. Bartram) G. L. Smith, 1971.

A. pallidum Renauld & Cardot, 1895 [1896].

A. pallidum var. *gracile* (C. Müller) Nyholm, Lindbergia 1: 9. 1971.
Basionym: *Catharinea gracilis* C. Müller, 1896.

A. rutteri Thériot & Dixon, J. Linn. Soc., Bot. 43: 310. pl. 27: f. 12. 1916.
Other use: *Pseudoracelopus rutteri* (Thériot & Dixon) A. Eddy, 1988.

A. selwynii Austin, 1877, "*selwyni*."

A. selwynii var. *altecristatum* (Renauld & Cardot) Nyholm, Lindbergia 1: 17. 1971.
Basionym: *Atrichum undulatum* var. *altecristatum* Renauld & Cardot, 1890.

A. subulirostrum W. P. Schimper ex Bescherelle, Mém. Soc. Sci. Nat. Cherbourg 16: 205. 1872.
Other use: *Steereobryon subulirostrum* (W. P. Schimper ex Bescherelle) G. L. Smith, 1971.

A. undulatum (Hedwig) Palisot de Beauvois, 1805.

A. undulatum var. *altecristatum* Renauld & Cardot, Bot. Gaz. (Crawfordsville) 15: 58. 1890.
Other use: *Atrichum selwynii* var. *altecristatum* (Renauld & Cardot) Nyholm, 1971, *Atrichum altecristatum* (Renauld & Cardot) Ireland, 1969.

Atrichum, continued.

**A. undulatum* fo. *attenuatum* Filipello, Allionia 10: 40. f. 2: 1. 1964.
*invalid, holotype not indicated by author (Article 37.1), not *A. undulatum* var. *attenuatum* Bruch & W. P. Schimper in B.S.G. (1844).
Type: no element cited by author.

A. undulatum fo. *intermedium* Tosco, Webbia 28: 305. 1973.
Type: Italy. Gran Paradiso, Parco Nazionale, Canavese, Pont Canavese, Salendo da Pont a Mompont, ca. 800 m, *Ariello & Tosco*, 1969. Holotype: herb. Tosco.

A. undulatum var. *oerstedianum* (C. Müller) H. Crum, Bryologist 74: 166. 1971.
Basionym: *Catharinea oerstediana* C. Müller, 1851.

A. undulatum fo. *thermophila* (Hesselbo) Nyholm, Lindbergia 1: 20. 1971.
Basionym: *Catharinea undulata* var. *thermophila* Hesselbo, 1918.

A. undulatum var. *yunnanense* (Brotherus) Chen Pan-chieh & Wan Thung-ling ex Xu Wen-xuan & Xiong Ruo-li, Acta Bot. Yunnan. 6: 182. 1984.
Basionym: *Catharinea yunnanensis* Brotherus, 1923.
Note: valid, error of bibliographic citation of basionym (Article 33.2), "*Atrichum* (*Catharinea*) *yunnanense* Broth., Symb. Sin. 4: 131. 1929."

Aulacomnium Schwägrichen, 1827, "*Aulacomnion*," conserved name.

+*A. heterostichoides* Janssens, D. G. Horton & Basinger, Canad. J. Bot. 57: 2153. f. 4-5, 7-8, 10-18. 1979.
Type: Canada. British Columbia: 5 km N of Horsefly, Middle Eocene sediments, *Paleobotanical Collection S6512a* (part) & *b* (counterpart). Holotype: ALTA.

Aulacopilum Wilson, 1848.

A. brittoniae Pursell, Bryologist 69: 463. f. 1-6. 1966 [1967], "*brittoneae*."
Type: Mexico. Nuevo Leon: mountains near Monterrey, *Pringle 727*. Holotype: NY.

A. luzonense E. B. Bartram, Philipp. J. Sci. 68: 169. f. 209. 1939.
Other use: *Erpodium luzonense* (E. B. Bartram) H. Crum, 1972 [1973].

A. schaeferi H. Crum, Bryologist 91: 191. f. 1-6. 1988.
Type: Brazil. Sao Paulo: Serra Negra, im Stadtpark (Praca), *Schaefer-Verwimp 6967a*. Holotype: MICH.
Original placement: sect. *Aulacopilum*.

Austinia C. Müller, 1875.

A. brotheri Buck & H. Crum, J. Hattori Bot. Lab. 44: 356. f. 13-16. 1978.
Type: Australia. Queensland: Ravenshoe, *Watts 667*. Holotype: H-Brotherus; isotype: MICH.

A. tenuinervis C. Müller, 1875.

**A. tenuinervis* var. *micholitzii* (Brotherus ex Dixon) Buck & H. Crum, J. Hattori Bot. Lab. 44: 356. 1978.
*invalid, basionym invalid (Article 33.2).

+ **Bajdaievia** Neuberg, 1958.
+ *B. longiuscula* Fefilova, Listos. Mhi Permi Evr. Severa SSSR 46. f. 11. pl. 10. 1978.
Type: U.S.S.R. N of Pre-Ural Depression, Bolshaia Synia, Kazan Stage, *Inst. Geol. 306/98*. Holotype: SYKO.
+ *B. rectifolia* Neuberg, Congr. Geol. Int., Secc. VII, Paleontol., Taxon., Evol. 103. 1958.
Note: cited as invalid, no description (Article 41.3), from "Dokl. Ak. Nauk SSSR 107(2): 322. 1956" in Index Muscorum.
+ *B. speciosa* Fefilova, Listos. Mhi Permi Evr. Severa SSSR 49. f. 12. pl. 11. 1978.
Type: U.S.S.R. N of Pre-Ural Depression, Insel Creek, tributary of Kosiu River, Ufa Stage, *Inst. Geol. 306/191*. Holotype: SYKO.

Baldwiniella Brotherus in Fleischer, 1906.
B. tibetana Gao Chien in Gao Chien & Chang Kung-chu, Acta Phytotax. Sin. 17: 117. f. 2: 12-17. 1979.
Type: China. Xizang: Cona Xian, 2450 m, *Ecol. Off. Tibet Sect. M.7404*(1). Holotype: IFP.

Barbella Fleischer ex Brotherus in Engler & Prantl, 1906.
B. sect. *Elongatae* Noguchi, J. Hattori Bot. Lab. 41: 329. 1976.
Type: *B. elongata* Williams, holotype.
B. amoena Fleischer ex Brotherus, Nat. Pflanzenfam. 1(3): 824. 1906.
Other use: *Isotheciopsis amoena* (Fleischer ex Brotherus) Noguchi, 1970, *Neobarbella amoena* (Fleischer ex Brotherus) Lou Jian-shing, 1989.
B. angustifolia Brotherus ex Gangulee, Mosses E. India 5: 1338. f. 656. 1976.
Type: India. Darjeeling, Sandakphu, *Rhomoo*, 1908. Holotype: BM.
B. angustifolia var. *subtenax* C. Müller ex Gangulee, Mosses E. India 5: 1339. f. 657. 1976.
Type: India. Darjeeling, *Kurz 2385*. Holotype: BM.
B. biformis Noguchi, J. Hattori Bot. Lab. 41: 321. f. 39: a-f. 1976.
Type: China. Taiwan: Ilan, Tailuko Gorge, *Iwatsuki & Sharp 1712*. Holotype: NICH; isotype: TENN.
Original placement: sect. *Dicladiella*.
B. chrysonema (C. Müller in Renauld & Cardot) Noguchi, J. Hattori Bot. Lab. 41: 328. 1976.
Basionym: *Papillaria chrysonema* C. Müller in Renauld & Cardot, 1895 [1896].
B. eusebii Tosco & Piovano, Allionia 4: 131. f. 13-14. 1956.
Original placement: sect. *Eubarbella* [sic].
Note: not in Index Muscorum.
B. koningsbergeri Fleischer, Musci Buitenzorg 4: 1666. f. 266. 1923.
Other use: *Clastobryella koningsbergeri* (Fleischer) Noguchi, 1971.

Barbella, continued.

B. linearifolia Lin Shan-Hsiung, Yushania 5: 26. 1988.
Replaced name: *Pseudobarbella angustifolia* Noguchi, 1948.
Blocking name: *Barbella angustifolia* Brotherus ex Gangulee, 1976.

B. minuta Lazarenko, Bot. Zhurn. (Kiev) 2(1): 87. f. 2. 1941.
Note: not in Index Muscorum.

B. niitakayamensis (Noguchi) Lin Shan-Hsiung, Yushania 5: 26. 1988.
Basionym: *Pseudobarbella niitakayamensis* Noguchi, 1948.

B. nitens (J. D. Hooker & Wilson) Noguchi, J. Hattori Bot. Lab. 58: 100. 1985.
Basionym: *Meteorium nitens* J. D. Hooker & Wilson, 1854.

B. ochracea Noguchi, Trans. Nat. Hist. Soc. Taiwan 26: 145. f. 1: 11-14. 1936.
Other use: *Chrysocladium flammeum* subsp. *ochraceum* (Noguchi) Noguchi, 1976.

B. pilifera Brotherus & M. Yasuda, Rev. Bryol. 53: 2. 1926.
Other use: *Isotheciopsis pilifera* (Brotherus & M. Yasuda) Noguchi, 1970.

B. turgida Noguchi in H. Hara, Fl. E. Himalaya 1: 571. f. 38. 1966.
Type: Nepal. Baroya Khimty-Thakma Khola, 2500-3000 m, *Kanai, Murata & Togashi 236724*. Holotype: NICH; isotype: TI.

Barbula Hedwig, 1801, conserved name.

B. sect. *Asteriscium* C. Müller, Linnaea 42: 342. 1879.
Other use: *Didymodon* sect. *Asteriscium* (C. Müller) Zander, 1981.

B. sect. *Graciles* Milde, Bryol. Siles. 117. 1869.
Other use: *Didymodon* sect. *Graciles* (Milde) K. Saito, 1975.

B. sect. *Hydrogonium* (C. Müller) K. Saito, J. Hattori Bot. Lab. 39: 492. 1975.
Basionym: *Trichostomum* sect. *Hydrogonium* C. Müller, 1876.

B. sect. *Hyophiladelphus* C. Müller, Syn. Musc. Frond. 1: 604. 1849.
Other use: *Barbula* subgen. *Hyophiladelphus* (C. Müller) Zander, 1979.

B. subgen. *Hyophiladelphus* (C. Müller) Zander, Phytologia 44: 201. 1979.
Basionym: *Barbula* sect. *Hyophiladelphus* C. Müller, 1849.

B. subgen. *Odontophylla* K. Saito, J. Hattori Bot. Lab. 39: 499. 1975.
Type: *B. hiroshii* K. Saito, holotype.

B. subgen. *Streblotrichum* (Palisot de Beauvois) K. Saito, J. Hattori Bot. Lab. 39: 499. 1975.
Basionym: *Streblotrichum* Palisot de Beauvois, 1804.

B. sect. *Vineales* Steere in Grout, Moss Fl. N. Amer. 1: 174. 1938.
Other use: *Didymodon* sect. *Vineales* (Steere in Grout) Zander, 1978.

B. acuta (Bridel) Bridel, 1819 [1818].

B. acuta var. *bescherellei* (Sauerbeck in Jaeger) H. Crum, Bryologist 72: 241. 1969.
Basionym: *Barbula bescherellei* Sauerbeck in Jaeger, 1880.

B. acuta var. *icmadophila* (W. P. Schimper ex C. Müller) H. Crum, Bryologist 72: 241. 1969.
Basionym: *Barbula icmadophila* W. P. Schimper ex C. Müller, 1849.

Barbula, continued.

B. aneitensis Brotherus & Watts, J. & Proc. Roy. Soc. New South Wales 49: 136. 1915.
Other use: *Hydrogonium aneitense* (Brotherus & Watts) Schultze-Motel, 1973.

B. anserinocapitata Li Xing-jiang, Acta Bot. Yunnan. 3: 103. f. 2: 1-9. 1981.
Type: China. Xizang: Qayu, 3500 m, *Zang 962*. Holotype: KUN.

B. asperifolia Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 34. 1859.
Other use: *Didymodon asperifolius* (Mitten) H. Crum, Steere & L. E. Anderson, 1964.

B. asperifolia var. *gorodkovii* (A. L. Abramova & I. I. Abramov in I. I. Abramov) Savicz-Ljubitskaya, Novosti Sist. Niz. Rast. 6: 248. 1969 [1970].
Basionym: *Didymodon rufus* var. *gorodkovii* A. L. Abramova & I. I. Abramov in I. I. Abramov, 1963.

B. aurea (E. B. Bartram) Zander in Zander & Steere, Bryologist 81: 466. 1978.
Basionym: *Tortula aurea* E. B. Bartram, 1924.

B. barbuloides (Herzog) U. Mizushima, Jap. J. Bot. 46: 320. 1971.
Basionym: *Erythrophyllum barbuloides* Herzog, 1925.

B. bescherellei Sauerbeck in Jaeger, Ber. Thätigk. St. Gallischen Naturwiss. Ges. 1877-78: 409 (Gen. Sp. Musc. 2: 1427). 1880, "*bescherelleii*."
Replaced name: *Barbula rigidula* Bescherelle, 1872.
Blocking name: *Barbula rigidula* (Hedwig) Milde, 1869.
Other use: *Barbula acuta* var. *bescherellei* (Sauerbeck in Jaeger) H. Crum, 1969.

B. bistrata Rungby, Bot. Not. 112: 81. illustration. 1959.
Note: not in Index Muscorum.

B. brachyphylla Sullivant in Whipple, Expl. Railroad Mississippi Pacific, Decr. Moss. Liverw. 4: 186. pl. 2. 1856.
Other use: *Didymodon vinealis* var. *brachyphyllus* (Sullivant in Whipple) Zander, 1981, *Didymodon brachyphyllus* (Sullivant in Whipple) Zander, 1978.

B. calcarea Thériot, Smithsonian Misc. Collect. 85(4): 20. f. 11. 1931.
Other use: *Bryoerythrophyllum calcareum* (Thériot) Zander, 1980.

B. calobolax C. Müller, Bot. Jahrb. Syst. 5: 80. 1883.
Other use: *Willia calobolax* (C. Müller) Lightowlers, 1985.

B. calobolax var. *angustinervia* C. Müller, Forschungsr. Gazelle 4: 24. 1889.
Other use: *Willia calobolax* var. *angustinervia* (C. Müller) Lightowlers, 1985.

B. canaliculata (Dixon) R. S. Chopra, Taxon. Indian Mosses 138. 1975.
Basionym: *Didymodon canaliculatus* Dixon, 1930.

B. catenulata Dixon, Anniv. Vol. Bot. Gard. Calcutta 181. 1942.
Note: not in Index Muscorum.

B. columbiana (F. J. Hermann & E. Lawton) F. J. Hermann & E. Lawton, Bull. Torrey Bot. Club 99: 310. 1972 [1973].
Basionym: *Didymodon columbianus* F. J. Hermann & E. Lawton, 1968.

B. congoana Thériot, Rev. Bryol., n.s. 3: 33. f. 2. 1930.
Other use: *Semibarbula congoana* (Thériot) Bizot, 1971-72 [1973].

Barbula, continued.

B. constricta Mitten, J. Proc. Linn. Soc., Bot., Suppl., 1: 33. 1859.
Other use: *Didymodon constrictus* (Mitten) K. Saito, 1975.

B. constricta var. *flexicuspis* Chen Pan-chieh, Hedwigia 80: 203. f. 31: 8. 1941, "*flexicuspe*."
Other use: *Didymodon constrictus* var. *flexicuspis* (Chen Pan-chieh) K. Saito, 1975.

B. convoluta Hedwig, 1801.

B. convoluta var. *gallinula* Zander, Phytologia 44: 195. 1979.
Type: Canada. Northwest Territories: Nahanni Natl. Park, Virginia Falls, *Scotter 22433*. Holotype: NY; isotype: BUF.

B. coreensis (Cardot) K. Saito, J. Hattori Bot. Lab. 39: 484. 1975.
Basionym: *Barbula paludosa* var. *coreensis* Cardot, 1904.

B. crassicuspis H. Robinson, Bryologist 67: 446. f. 1-3. 1964.
Type: Mexico. Oaxaca: Llano de las Flores in Sierra Juarez, *Sharp*, 1962. Holotype: US; isotype: TENN.
Other use: *Morinia crassicuspis* (H. Robinson) Zander, 1978 [1979].

B. crocea (Bridel) Weber & D. Mohr, 1807.

B. crocea var. *funckiana* (Schultz) Margadant, Lindbergia 1: 124. 1972.
Basionym: *Barbula funckiana* Schultz, 1822.

B. cucullata J. Fröhlich, Ann. Naturhist. Mus. Wien 67: 153. 1964.
Type: Afghanistan. Mazar-i Sharif, in faucibus fluvii Balkh supra Aq Kupruk, *Rechinger 19672*. Holotype: W. Paratype cited.

B. curvipes C. Müller, Linnaea 42: 344. 1879.
Other use: *Trichostomopsis curvipes* (C. Müller) H. Robinson, 1970.

**B. denticulata* Dixon & Potier de la Varde, Arch. Bot. Bull. Mens. 1(3): 167. pl. 3: f. 5. 1927.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Barbula denticulata* Wilson in Mitten, 1851.
Correct name: *Barbula vardei* R. S. Chopra, 1977.

B. ditrichoides Brotherus, Akad. Wiss. Wien Sitzungsber., Math.-Naturwiss. Kl., Abt. 1, 133: 566. 1924.
Other use: *Didymodon acutus* var. *ditrichoides* (Brotherus) Zander, 1978.

**B. dixonii* R. S. Chopra, Taxon. Indian Mosses 139. 1975.
*illegitimate, type of earlier name included (Article 63.1).
Earlier name: *Didymodon dixonii* Wadhwa, 1963.

B. elongata Wilson in Mitten, Hooker's J. Bot. Kew Gard. Misc. 3: 51. 1851.
Other use: *Morinia ehrenbergiana* var. *elongata* (Wilson in Mitten) Zander, 1978 [1979].

**B. elongata* Dixon, S. African J. Sci. 18: 314. 1922.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Barbula elongata* Wilson in Mitten, 1851.
Correct name: *Barbula zambesiaca* Magill in Magill & Schelpe, 1979.

B. erosodenticulata C. Müller, Nuovo Giorn. Bot. Ital., n.s., 3: 102. 1896.
Other use: *Didymodon erosodenticulatus* (C. Müller) K. Saito, 1975.

Barbula, continued.

B. fallax Hedwig, Sp. Musc. Frond. 120. 1801.
Other use: *Didymodon fallax* (Hedwig) Zander, 1978.

B. ferruginea W. P. Schimper ex Bescherelle, Mém. Soc. Sci. Nat. Cherbourg 16: 181. 1872.
Other use: *Didymodon ferrugineus* (W. P. Schimper ex Bescherelle) M. O. Hill, 1981 [1982].

B. funckiana Schultz, Flora 5 (Syll.): 36. 1822.
Other use: *Barbula crocea* var. *funckiana* (Schultz) Margadant, 1972.

B. geheebiaeopsis C. Müller, Bot. Jahrb. Syst. 5: 80. 1883.
Other use: *Leptodontium geheebiaeopsis* (C. Müller) Dixon, 1930.

B. haussknechtii Juratzka & Milde, Verh. Zool.-Bot. Ges. Wien 20: 593. 1870.
Other use: *Desmatodon haussknechtii* (Juratzka & Milde) J. Fröhlich, 1964, *Trichostomopsis haussknechtii* (Juratzka & Milde) Agnew & C. C. Townsend, 1970.

B. hiroshii K. Saito, J. Hattori Bot. Lab. 39: 499. f. 48: 12-22. 1975.
Type: Japan [Honshu]. Tokyo: Okutama, Nippara, Ogawi-dani, *Saito 10379*. Holotype: TNS.
Original placement: subgen. *Odontophylla*.

B. hispaniolensis Buck & Steere, Moscosoa 2: 30. 1983.
Replaced name: *Barbula leptodontoides* H. Crum & Steere, 1958.
Blocking name: *Barbula leptodontioides* C. Müller, 1900.

B. hornschuchiana Schultz, Syll. Pl. Nov. 1: 35. 1824 [1822].
Other use: *Pseudocrossidium hornschuchianum* (Schultz) Zander, 1979.

B. horricomis Gangulee, Nova Hedwigia 12: 423. pl. 4. 1966 [1967].
Type: India. Mussoorie, *Duthie*, 1895. Holotype: CAL.

B. horrinervis K. Saito, J. Hattori Bot. Lab. 39: 486. f. 43. 1975.
Type: Japan [Honshu]. Tokyo: Okutama, Nippara, *Saito 4936*. Holotype: TNS.
Original placement: sect. *Barbula*.

B. humboldtii Herzog, Biblioth. Bot. 87: 167. f. 80. 1916.
Other use: *Didymodon humboldtii* (Herzog) E. Hegewald & P. Hegewald, 1977.

B. icmadophila W. P. Schimper ex C. Müller, Syn. Musc. Frond. 1: 614. 1849.
Other use: *Barbula acuta* var. *icmadophila* (W. P. Schimper ex C. Müller) H. Crum, 1969, *Didymodon acutus* var. *icmadophila* (W. P. Schimper ex C. Müller) Zander, 1978, *Didymodon icmadophylla* (W. P. Schimper ex C. Müller) K. Saito, 1975, *Didymodon rigidulus* var. *icmadophila* (W. P. Schimper ex C. Müller) Zander, 1981.

B. imshaugii Vitt, Bryologist 74: 464. f. 1, 5-11. 1971 [1972].
Type: New Zealand. Campbell Island: St. Col Ridge, SW of summit, *Vitt 2993*. Holotype: NY.

B. inaequalifolia Taylor, London J. Bot. 5: 49. 1846.
Other use: *Bryoerythrophyllum inaequalifolium* (Taylor) Zander, 1980.

Barbula, continued.

B. inclinata (R. A. Hedwig in Weber & D. Mohr) Schwägrichen, 1811.

B. inclinata var. *densa* Lorentz & Molendo in Lorentz, Moosstudien 90. 1864.
Other use: *Tortella densa* (Lorentz & Molendo in Lorentz) Crundwell & Nyholm, 1962 [1963].

B. indica (W. J. Hooker) Sprengel in Steudel, 1824.

B. indica var. *gregaria* (Mitten) Zander, Cryptog. Bryol. Lichénol. 2: 6. 1981.
Basionym: *Tortula gregaria* Mitten, 1859.

B. integrifolia (R. S. Williams) Zander, Bryologist 75: 277. 1972.
Basionym: *Leptodontium integrifolium* R. S. Williams, 1916.

B. jacksharpii H. Crum, Bryologist 87: 204. f. 1-4. 1984.
Type: Guatemala. Huehuetenango: above San Juan Ixcoy, 7500 feet, *Sharp 4982*. Holotype: MICH.

B. johansenii R. S. Williams, Rep. Canad. Arctic Exped. 4: 4. pl. 1: f. 1-12. 1921.
Other use: *Didymodon johansenii* (R. S. Williams) H. Crum, 1969.

B. kivuensis J. Leroy & Potier de la Varde in Demaret & J. Leroy, Explor. Parc Natl. Albert, Mission Lebrun 6: 15. f. 12-16. 1944.
Note: not in Index Muscorum.

B. lambarenensis Potier de la Varde, Rev. Bryol. Lichénol. 6: 141. f. 7. 1933.
Other use: *Semibarbula lambarenensis* (Potier de la Varde) Bizot, 1971-72 [1973].

B. leiophylla Tixier, Rev. Bryol. Lichénol. 34: 136. f. 6. 1966.
Type: Vietnam. Chapa, 1500 m, *Petelot 47*. Herbarium not specified by author.

**B. leptodontoides* H. Crum & Steere, Amer. Midl. Naturalist 60: 17. f. 20-38. 1958.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Barbula leptodontioides* C. Müller, 1900.
Correct name: *Barbula hispaniolensis* Buck & Steere, 1983.

B. leucobasis Dixon in Dixon & Greenwood, Proc. Linn. Soc. New South Wales 55: 277. 1930.
Other use: *Hydrogonium leucobasis* (Dixon in Dixon & Greenwood) Schultze-Motel, 1974.
Note: cited as invalid, no Latin description (Article 36.1), from "Bishop Mus. Occ. Pap. 22: 20. 1957" in Index Muscorum.

B. llanosii C. Müller, Gen. Musc. Frond. 445. 1900.
Other use: *Hymenostyliella llanosii* (C. Müller) H. Robinson, 1971.

B. longicostata Li Xing-jiang, Acta Bot. Yunnan. 3: 105. f. 2: 10-15. 1981.
Type: China. Xizang: Nyingchi Xian, 3650 m, *Chen 430*. Holotype: KUN.

B. longipedunculata C. Müller, Syn. Musc. Frond. 1: 630. 1849.
Other use: *Desmatodon longipedunculatus* (C. Müller) Magill, 1981 [1982].

B. louisiadum Brotherus, Oefers. Förh. Finska Vetensk.-Soc. 42: 97. 1899 [1900].
Other use: *Hydrogonium louisiadum* (Brotherus) Schultze-Motel, 1973.

B. luehmannii Brotherus & Geheeb, Oefers. Förh. Finska Vetensk.-Soc. 37: 158. 1895, "*luehmanni*."
Other use: *Didymodon luehmannii* (Brotherus & Geheeb) Catcheside, 1980.

Barbula, continued.

B. malagana H. Crum, Bryologist 70: 235. f. 1-7. 1967.
Type: Peru. Lima: Lima, Cascadas de Barranco, 5 m, *Malaga*, 1964. Holotype: MICH.

B. mamillosa Crundwell, J. Bryol. 9: 163. f. 1. 1976.
Type: United Kingdom. Scotland: Perthshire, Kirkton Glen, Balquhidder, *Wallace*, 1967. Holotype: GL; isotypes: E, S-PA, herb. Wallace.
Other use: *Didymodon mamillosus* (Crundwell) M. O. Hill, 1981 [1982].

B. marginatula Gangulee, Nova Hedwigia 12: 424. pl. 5. 1966 [1967].
Type: India. Pegu Yoma, *Kurz 3301*. Holotype: CAL.

B. maxima Syed & Crundwell, J. Bryol. 7: 527. 1973 [1974].
Replaced name: *Barbula reflexa* var. *robusta* Braithwaite, 1887.
Blocking name: *Barbula robusta* (W. J. Hooker & Greville) Bridel, 1827.
Other use: *Didymodon maximus* (Syed & Crundwell) M. O. Hill, 1981 [1982].

B. michiganensis Steere in Grout, Moss Fl. N. Amer. 1: 180. pl. 89: a. 1938.
Other use: *Didymodon michiganensis* (Steere in Grout) K. Saito, 1975.

B. microcalycina Magill, Fl. S. Africa, Bryophyta, Mosses 1: 241. f. 70: 10-19. 1981 [1982].
Type: South Africa. Natal: Cathedral Peak, Upper Indumeni Forest, *Magill 5706*. Holotype: PRE; isotypes: C, H, MO, NY.

B. microstoma (Dixon & Badhwar) R. S. Chopra, Bryologist 80: 544. 1977.
Basionym: *Didymodon microstomus* Dixon & Badhwar, 1938.
Note: invalid, basionym not cited (Article 33.2), in Taxon. Indian Mosses 139. 1975.

B. mniifolia Sullivant, Proc. Amer. Acad. Arts 5: 277. 1861.
Other use: *Dolotortula mniifolia* (Sullivant) Zander, 1989.

B. nigrescens Mitten, J. Proc. Linn. Soc., Bot., Suppl., 1: 36. 1859.
Other use: *Didymodon nigrescens* (Mitten) K. Saito, 1975.

B. obliquifolia C. Müller, Nuovo Giorn. Bot. Ital., n.s., 5: 178. 1898.
Other use: *Aloina rigida* var. *obliquifolia* (C. Müller) Delgadillo M., 1975.

B. obtusula Lindberg, Musci Scand. 22. 1879.
Other use: *Pseudocrossidium obtusulum* (Lindberg) H. Crum & L. E. Anderson, 1989, *Pseudocrossidium revolutum* var. *obtusulum* (Lindberg) B. C. Tan, Zander & J. Taylor, 1981.

**B. paludosa* Weber & D. Mohr, 1807.
*illegitimate, type of earlier name included (Article 63.1).

B. paludosa var. *coreensis* Cardot, Beih. Bot. Centralbl. 17: 8. 1904.
Other use: *Barbula coreensis* (Cardot) K. Saito, 1975.

B. porphyreoneura C. Müller, Nuovo Giorn. Bot. Ital. 4: 13. 1872.
Other use: *Tortula porphyreoneura* (C. Müller) C. C. Townsend, 1979.

B. prionophylla K. Saito, Jap. J. Bot. 46: 142. 1971.
Replaced name: *Leptodontium setschwanicum* Brotherus, 1922.
Blocking name: *Barbula setschwanica* Brotherus, 1924.

B. pseudonigrescens Tixier, Ann. Hist.-Nat. Mus. Natl. Hung. 66: 88. f. 2. 1974.
Type: Vietnam. Centre, Tuyen Duc, Dalat, *Tixier 2175*. Holotype: PC.

Barbula, continued.

B. rechingeri Brotherus, Denkschr. Kaiserl. Akad. Wiss., Math.- Naturwiss. Kl. 89: 467. 1913.
Other use: *Hydrogonium rechingeri* (Brotherus) Schultze-Motel, 1973.

B. recurva (Griffith) R. S. Chopra, Bryologist 80: 544. 1977, "*recurvis*."
Basionym: *Gymnostomum recurvum* Griffith, 1842.
Note: invalid, basionym not cited (Article 33.2), in Taxon. Indian Mosses 139. 1975.

B. reflexa (Bridel) Bridel, 1819 [1818].

B. reflexa var. *robusta* Braithwaite, Brit. Moss Fl. 1: 266. 1887.
Other use: *Barbula maxima* Syed & Crundwell, 1973 [1974].

B. replicata Taylor, London J. Bot. 5: 49. pl. 15: c. 1846.
Other use: *Pseudocrossidium replicatum* (Taylor) Zander, 1979.

B. revoluta Bridel in Schrader, J. Bot. (Schrader) 1800(2): 299. 1801.
Other use: *Pseudocrossidium revolutum* (Bridel in Schrader) Zander, 1979.

B. rigidicaulis C. Müller, Nuovo Giorn. Bot. Ital., n.s., 4: 255. 1897.
Other use: *Didymodon rigidicaulis* (C. Müller) K. Saito, 1975.

B. rigidula (Hedwig) Milde, 1869.

B. rigidula var. *desertorum* J. Fröhlich, Ann. Naturhist. Mus. Wien 63: 31. 1959.
Other use: *Barbula trifaria* var. *desertorum* (J. Fröhlich) Agnew in Agnew & Vondrácek, 1975.

B. rivicola Brotherus, Symb. Sin. 4: 41. 1929.
Other use: *Didymodon rivicola* (Brotherus) Zander in T. Koponen et al., 1983.

B. rubiginosa Mitten, J. Proc. Linn. Soc., Bot. 8: 27. f. 5. 1864.
Other use: *Didymodon occidentalis* Zander, 1978, *Didymodon vinealis* var. *rubiginosus* (Mitten) Zander, 1981.

B. rufofusca E. Lawton & F. J. Hermann, Bull. Torrey Bot. Club 99: 307. f. 1-15. 1972 [1973].
Type: U.S.A. Alaska: 23 km NW of Juneau, 0.8 km SE of Mendenhall Glacier, *Hermann 22035*. Holotype: US; isotypes: C, H, MICH, NY, PC, TENN, WTU, herb. Hermann. Other indicated distribution: Canada (British Columbia).

B. ruralis Hedwig, 1801.

B. ruralis var. *hirsuta* Venturi, Rev. Bryol. 17: 52. 1890.
Other use: *Tortula ruralis* subsp. *hirsuta* (Venturi) W. Kramer, 1980.

B. sprengelii Schwägrichen, Sp. Musc. Frond., Suppl. 2 1(1): 64. pl. 119. 1823.
Other use: *Hyophilopsis sprengelii* (Schwägrichen) H. Crum, 1965, *Neohyophila sprengelii* (Schwägrichen) H. Crum, 1965 [1966].

B. stenotheca Thériot, Smithsonian Misc. Collect. 85(4): 21. f. 12. 1931.
Other use: *Morinia stenotheca* (Thériot) Zander, 1983.

B. strictifolia (Dixon & Potier de la Varde) R. S. Chopra, Taxon. Indian Mosses 140. 1975.
Basionym: *Didymodon strictifolius* Dixon & Potier de la Varde, 1927.

B. subandreaeoides Kindberg, Rev. Bryol. 32: 36. 1905.
Other use: *Didymodon subandreaeoides* (Kindberg) Zander, 1978.

Barbula, continued.

B. subtorquata C. Müller & Hampe, Linnaea 26: 492. 1853.
Other use: *Didymodon subtorquatus* (C. Müller & Hampe) Catcheside, 1980.

**B. taylorii* E. B. Bartram & Steere, Allan Hancock Pacific Exped. 3(1): 4. pl. 1: 6-8. 1936.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Barbula taylorii* Lindberg, 1863.
Other use: *Hydrogonium taylorii* W. A. Weber, 1975.

B. tectorum C. Müller, Nuovo Giorn. Bot. Ital., n.s., 3: 101. 1896.
Other use: *Didymodon tectorum* (C. Müller) K. Saito, 1975.

B. tomaculosa Blockeel, J. Bryol. 11: 583. f. 1-2. 1981 [1982].
Type: United Kingdom. England: Yorkshire, Midgley, W of Wakefield, *Blockeel*, 1980. Holotype: CGE.
Other use: *Didymodon tomaculosus* (Blockeel) Corley in Corley et al., 1981 [1982].

B. torquata Taylor, London J. Bot. 5: 50. 1846.
Other use: *Didymodon torquatus* (Taylor) Catcheside, 1980.

B. trifaria (Hedwig) Mitten, 1859.

B. trifaria var. *desertorum* (J. Fröhlich) Agnew in Agnew & Vondrácek, Feddes Repert. 86: 366. 1975.
Basionym: *Barbula rigidula* var. *desertorum* J. Fröhlich, 1959.

B. trivialis C. Müller, Hedwigia 38: 107. 1899.
Other use: *Trichostomopsis trivialis* (C. Müller) H. Robinson, 1970.

B. umbrosa C. Müller, Linnaea 42: 340. 1879.
Other use: *Didymodon australasiae* var. *umbrosus* (C. Müller) Zander, 1981, *Didymodon umbrosus* (C. Müller) Zander, 1978, *Trichostomopsis umbrosa* (C. Müller) H. Robinson, 1970.

B. umtaliensis Magill in Magill & Schelpe, Mem. Bot. Surv. South Africa 43: 5. 1979.
Replaced name: *Tortella obtusifolia* Dixon, 1922.
Blocking name: *Barbula obtusifolia* Schwägrichen, 1811.

B. unguiculata Hedwig, 1801.

B. unguiculata fo. *minus* Tosco, Webbia 28: 284. 1973, "*minor*."
Type: Italy. Gran Paradiso, Parco Nazionale, Val di Cogne, Cogne, *Tosco*, 1954. Holotype: herb. Tosco.

B. unguiculata fo. *propagulosa* H. Crum, Bryologist 72: 241. 1969.
Type: U.S.A. Tennessee: Montgomery Co., 4 miles SE of Clarksville, *Clebsch 581*. Holotype: MICH.

B. vardei R. S. Chopra, Bryologist 80: 544. 1977.
Replaced name: *Barbula denticulata* Dixon & Potier de la Varde, 1927.
Blocking name: *Barbula denticulata* Wilson in Mitten, 1851.
Note: invalid, basionym not cited (Article 33.2), in Taxon. Indian Mosses 141. 1975.

B. vinealis Bridel, Bryol. Univ. 1: 830. 1827.
Other use: *Didymodon vinealis* (Bridel) Zander, 1978.

Barbula, continued.

B. vinealis var. *flaccida* Bruch & W. P. Schimper, Bryol. Eur. 2: 86. pl. 148: vinealis β (fasc. 13-15. Monogr. 24. pl. 10: vinealis β). 1842.
Other use: *Didymodon vinealis* var. *flaccidus* (Bruch & W. P. Schimper) Zander, 1978.

B. williamsii (Chen Pan-chieh) Iwatsuki & B. C. Tan, Kalikasan 8: 186. 1979.
Basionym: *Hydrogonium williamsii* Chen Pan-chieh, 1941.

B. wisselii Dixon, Farlowia 1: 30. 1943.
Other use: *Didymodon wisselii* (Dixon) Norris & T. Koponen, 1989.

B. xanthocarpa C. Müller, Linnaea 17: 581. 1843.
Other use: *Didymodon xanthocarpus* (C. Müller) Magill in Magill & Schelpe, 1979.

B. zambesiaca Magill in Magill & Schelpe, Mem. Bot. Surv. South Africa 43: 5. 1979.
Replaced name: *Semibarbula elongata* Hilpert, 1933.
Blocking name: *Barbula elongata* Wilson in Mitten, 1851.

Barnesia Cardot, 1910.

B. tortelloides Cardot, Rev. Bryol. 37: 123. 1910.
Other use: *Streptocalypta tortelloides* (Cardot) Zander, 1982 [1983].

Bartleya H. Robinson, Bryologist 69: 105. 1966.
Type: *B. ohioensis* H. Robinson, holotype.
Original placement: Dicranaceae.

B. ohioensis H. Robinson, Bryologist 69: 105. f. 6-16. 1966.
Type: U.S.A. Ohio: Jackson Co., 3 miles S of Buckeye Furnace, *Bartley 310*. Holotype: US.
Other use: *Dicranella ohioensis* (H. Robinson) H. Crum, 1969.

Bartramia Hedwig, 1801, conserved name.

B. abyssinica C. Müller, Syn. Musc. Frond. 1: 506. 1849.
Other use: *Flowersia abyssinica* (C. Müller) Griffin & Buck, 1989.

B. aurescens Dixon, J. Linn. Soc., Bot. 50: 94. pl. 2: f. 21. 1935.
Other use: *Anacolia aurescens* (Dixon) Iwatsuki, 1969.

B. bogongia Catcheside, Mem. New York Bot. Gard. 45: 621. f. 2, 3: h-k. 1987.
Type: Australia. Victoria: Bogong High Plains, Mt. Nelse Track, Rocky Valley Reservoir, *Scott & Fuhrer*, 1986. Holotype: MUCV; isotypes: herb. Catcheside, herb. Stone. Other indicated distribution: Australia (New South Wales).
Original placement: sect. *Vaginella*.

B. breutelii W. P. Schimper ex C. Müller, Bot. Zeitung (Berlin) 16: 162. 1858.
Other use: *Anacolia breutelii* (W. P. Schimper ex C. Müller) Magill, 1987.

B. campylopus W. P. Schimper in C. Müller, Syn. Musc. Frond. 2: 619. 1851.
Other use: *Anacolia campylopus* (W. P. Schimper in C. Müller) Fransen, 1988, *Flowersia campylopus* (W. P. Schimper in C. Müller) Griffin & Buck, 1989.

Bartramia, continued.

B. compacta Hornschuch, 1820.

B. compacta var. *macowaniana* (C. Müller) Magill, Fl. S. Africa, Bryophyta, Mosses 2: 413. 1987.
Basionym: *Bartramia macowaniana* C. Müller, 1899.

B. cygnea Montagne, Ann. Sci. Nat. Bot., ser. 3, 4: 102. 1845, "*cycnea*."
Other use: *Philonotis cygnea* (Montagne) Griffin & Buck, 1989.

B. erecta Mitten, J. Linn. Soc., Bot. 12: 255. 1869.
Other use: *Philonotis erecta* (Mitten) Griffin & Buck, 1989.

B. fendleri C. Müller, Linnaea 42: 463. 1879.
Other use: *Philonotis fendleri* (C. Müller) Griffin & Buck, 1989.

B. glaucescens Hornschuch, Fl. Bras. 1(2): 40. 1840.
Other use: *Philonotis uncinata* var. *glaucescens* (Hornschuch) Florschütz, 1964.

B. globosa C. Müller, Hedwigia 38: 90. 1899.
Other use: *Philonotis globosa* (C. Müller) Griffin & Buck, 1989.

B. hampei (Mitten) Catcheside, Mosses S. Australia 281. 1980.
Basionym: *Bartramidula hampei* Mitten, 1882.

B. incana Taylor, London J. Bot. 7: 189. 1848.
Other use: *Philonotis incana* (Taylor) H. Robinson in H. Robinson, Holm-Nielsen & Lojtnant, 1977.

B. macowaniana C. Müller, Hedwigia 38: 95. 1899.
Other use: *Bartramia compacta* var. *macowaniana* (C. Müller) Magill, 1987.

B. nana C. Müller, Flora 83: 332. 1897.
Other use: *Philonotis nana* (C. Müller) Griffin & Buck, 1989.

B. nothostricta Catcheside, Mem. New York Bot. Gard. 45: 621. f. 1: e-f. 1987.
Type: Australia. South Australia: Waterfall Gully, near Adelaide, *Catcheside 52.344*. Holotype: herb. Catcheside. Paratypes cited.
Original placement: sect. *Strictidium*.

B. oederiana Swartz, J. Bot. (Schrader) 2: 180. 1802.
Other use: *Plagiopus oederianus* (Swartz) H. Crum & L. E. Anderson, 1981.

B. patens Bridel, 1803.

**B. patens* var. *papillata* (J. D. Hooker & Wilson) Zanten in Zinderen Bakker, Winterbottom & R. A. Dyer, Marion & Prince Edward Islands, Musci 206. 1971.
*invalid, basionym not cited (Article 33.2).

B. patens var. *robusta* (J. D. Hooker & Wilson) Matteri, Darwiniana 25: 150. 1984.
Basionym: *Bartramia robusta* J. D. Hooker & Wilson, 1844.

B. patula Mitten, J. Linn. Soc., Bot. 12: 255. 1869.
Other use: *Philonotis patula* (Mitten) Griffin & Buck, 1989.

B. pseudostricta Catcheside, Mem. New York Bot. Gard. 45: 621. 1987.
Type: Australia. South Australia: Lower Flinders Ranges, Upper Alligator Gorge, *Catcheside 53.200*. Holotype: AD. Paratype cited.
Original placement: sect. *Strictidium*.

Bartramia, continued.
B. robusta J. D. Hooker & Wilson, Fl. Antarct. 1: 133. pl. 59: f. 4. 1844.
Other use: *Bartramia patens* var. *robusta* (J. D. Hooker & Wilson) Matteri, 1984.
B. squarrifolia Sim, Trans. Roy. Soc. South Africa 15: 302. illustration. 1926.
Other use: *Anacolia breutelii* var. *squarrifolia* (Sim) Magill, 1987.
B. substricta W. P. Schimper in C. Müller, Bot. Zeitung (Berlin) 16: 162. 1858.
Other use: *Breutelia substricta* (W. P. Schimper in C. Müller) Magill, 1987.
B. tuerckheimii C. Müller, Bull. Herb. Boissier 5: 187. 1897.
Other use: *Philonotis tuerckheimii* (C. Müller) Griffin & Buck, 1989.

Bartramidula Bruch & W. P. Schimper in B.S.G., 1846, conserved name.
B. bartramioides (Griffith) Wijk & Margadant, 1958.
**B. bartramioides* var. *sikkimensis* (Kabiersch) Gangulee, Mosses E. India 4: 1106. 1974.
*invalid, basionym not cited (Article 33.2).
B. comosa Brotherus, Nat. Pflanzenfam. 1(3): 644. f. 486. 1904.
Replaced name: *Bartramia comosa* Hampe & C. Müller, 1859.
Blocking name: *Bartramia comosa* Mitten, 1859.
Other use: *Philonotis comosa* (Brotherus) Griffin & Buck, 1989.
Note: new name, based on adoption of earlier epithet (Article 72.Note 1).
B. dispersa Cardot & Potier de la Varde, Rev. Bryol. 59: 23. f. 11. 1923.
Other use: *Philonotis dispersa* (Cardot & Potier de la Varde) Griffin & Buck, 1989.
B. hampei Mitten, Trans. & Proc. Roy. Soc. Victoria 19: 68. 1882.
Replaced name: *Glyphocarpus erectus* (Hampe) Jaeger, 1880.
Blocking name: *Glyphocarpus erectus* (Mitten) Jaeger, 1875.
Other use: *Bartramia hampei* (Mitten) Catcheside, 1980.
B. imperfecta (E. B. Bartram) Iwatsuki & B. C. Tan, Kalikasan 9: 271. 1980.
Basionym: *Philonotis imperfecta* E. B. Bartram, 1936.
B. le-testui Potier de la Varde, Rev. Bryol. Lichénol. 6: 144. f. 10. 1934.
Other use: *Philonotis le-testui* (Potier de la Varde) Griffin & Buck, 1989.
B. mexicana W. P. Schimper in Bescherelle, Mém. Soc. Sci. Nat. Cherbourg 16: 202. 1872.
Other use: *Philonotis mexicana* (W. P. Schimper in Bescherelle) Griffin & Buck, 1989.
B. setifolia (W. J. Hooker & Arnott) Fransen, Lindbergia 14: 31. 1988.
Basionym: *Gymnostomum setifolium* W. J. Hooker & Arnott, 1837.

Beccaria C. Müller, 1872.
B. elatior C. Müller, Nuovo Giorn. Bot. Ital. 4: 11. 1872.
Other use: *Pottia minor* var. *elatior* (C. Müller) Wijk & Margadant, 1965.
B. minor C. Müller, Nuovo Giorn. Bot. Ital. 4: 11. 1872.
Other use: *Pottia minor* (C. Müller) Wijk & Margadant, 1965.

*__Bellia__ Brotherus in Engler & Prantl, Nat. Pflanzenfam. 1(3): 923. 1907.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Bellia* Bubani, 1899.
Correct name: *Crosbya* Vitt, 1977.
B. crumii Vitt, Bryologist 74: 466. f. 2, 12-17. 1971 [1972].
Type: New Zealand. Campbell Island: slopes of Mt. Azimuth, *Vitt 2401*. Holotype: NY; isotype: NICH.

__Bellibarbula__ Chen Pan-chieh, 1941.
B. kurziana Hampe ex Chen Pan-chieh, 1941.
B. kurziana var. *purpurascens* Gangulee, Nova Hedwigia 8: 147. pl. 4. 1964.
Type: India. Sikkim-Himalaya, *Kurz 2133*. Holotype: CAL.

__Bizotia__ Pierrot in Bizot, Pierrot & Pócs, Rev. Bryol. Lichénol. 40: 26. 1974.
Type: *Paraleucobryum densifolium* Thériot, *B. densifolia* (Thériot) Pierrot in Bizot, Pierrot & Pócs, invalid combination.
Original placement: Dicranaceae.
**B. densifolia* (Thériot) Pierrot in Bizot, Pierrot & Pócs, Rev. Bryol. Lichénol. 40: 27. 1974.
*invalid, basionym not cited (Article 33.2).

__Blindia__ Bruch & W. P. Schimper in B.S.G., 1846.
B. acuta (Hedwig) Bruch & W. P. Schimper in B.S.G., 1846.
B. acuta var. *japonica* (Brotherus) Gao Chien, Fl. Musc. Chin. Boreali-Orient. 53. 1977.
Basionym: *Blindia japonica* Brotherus, 1921.
B. acuta subsp. *laticostata* Pilous, Preslia 37: 14. 1965.
Type: Czechoslovakia. Vysoke Tatry, Mala Studena dolina, Mylonite, 1860 m, *Pilous s.n.* Holotype: herb. Pilous.
B. dalatensis Tixier, Ann. Hist.-Nat. Mus. Natl. Hung. 66: 87. f. 1. 1974.
Type: Vietnam. Tuyen Duc, Lang Bian, *Tixier*, 1960. Holotype: PC.
B. gradsteinii Bartlett & Vitt, New Zealand J. Bot. 24: 232. f. 120-124. 1986.
Type: Colombia. Paramo de Sumapaz, Cerro Nevada, Lagunita del Lado W de Cerro, *Cleef 7767*. Holotype: U; isotype: ALTA.
B. japonica Brotherus, Oefers. Förh. Finska Vetensk.-Soc. 62A(9): 4. 1921.
Other use: *Blindia acuta* var. *japonica* (Brotherus) Gao Chien, 1977.
B. lewinskyae Bartlett & Vitt, New Zealand J. Bot. 24: 227. f. 101-108. 1986.
Type: New Zealand. South Island: Westland, Cedar Creek, *Bartlett 23125*. Holotype: ALTA; isotype: CHR. Paratypes cited.
B. maxwellii Vitt, Bryologist 74: 468. f. 3,18-22. 1971 [1972].
Type: New Zealand. Campbell Island: NNW slope of Mt. Honey, *Vitt 2436*. Holotype: NY.
B. seppeltii Bartlett & Vitt, New Zealand J. Bot. 24: 225. f. 85-100. 1986.
Type: Macquarie Island. 1.8 km E of Mt. Ilfould, *Sepplelt 11918*. Holotype: ALTA; isotype: HO. Other indicated distribution: Auckland and Campbell Islands.

Brachydontium Fürnrohr, 1827.

B. curvisetum H. Crum, Contr. Univ. Michigan Herb. 16: 139. f. 13-20. 1987.
Type: Mexico. Oaxaca: road N of Llano de las Flores, N of Oaxaca, 2000-2500 m, *Iwatsuki & Sharp 5340*. Holotype: TENN; isotype: MICH.

B. intermedium Stone, J. Bryol. 7: 343. f. 1-2. 1973.
Type: Australia. Victoria: Bogong High Plains, ruined castle, 1800 m, *Stone 2160*. Holotype: MEL; isotypes: BM, MELU, herb. Stone.

B. olympicum (Britton) McIntosh & Spence, Bryologist 89: 200. 1986 [1987].
Basionym: *Grimmia olympica* Britton, 1910.

Brachymenium Schwägrichen, 1824.

B. sect. *Globosa* Ochi, J. Fac. Educ. Tottori Univ., Nat. Sci. 29: 62. 1980.
Type: *B. globosum* Jaeger, holotype.

B. sect. *Rostrata* Ochi, J. Fac. Educ. Tottori Univ., Nat. Sci. 30: 49. 1981.
Type: *B. jamesonii* Taylor, holotype.

B. alpinum Ochi, Hikobia 4: 9. 1964.
Replaced name: *Bryum fulvellum* Wilson ex Mitten, 1859.
Blocking name: *Bryum fulvellum* Dickson, 1801.

B. andersonii H. Crum, Bryologist 74: 47. 1971.
Type: U.S.A. North Carolina: Macon Co., Chestnut Ridge, 3 miles NE of Highlands, 4000 feet, *Anderson 10051*. Holotype: MICH; isotype: DUKE.

B. angustirete Ochi, J. Fac. Educ. Tottori Univ., Nat. Sci. 23: 24. f. 17. 1972.
Type: Ethiopia. Bachit, *Schimper s.n.* Holotype: H-Brotherus.

B. brevicarpum Ochi & Streimann, Mem. New York Bot. Gard. 45: 615. f. 1-7. 1987.
Type: Papua New Guinea. Morobe: Aiuwa-Bakia Track, 3 km W of Aseki, 1500 m, *Streimann & Tamba 12306*. Holotype: CBG; isotype: herb. Ochi. Paratype cited.

B. chilense Ochi & Mahu, Hikobia 10: 221. 1988.
Type: Chile. San Antonio: El Quisco, N de la Quebrada Huallilemu Matorral de Baccharis, en suelo, 60 m, *Mahu 21852*. Holotype: HIRO.

**B. contortum* Hampe ex Ochi, J. Jap. Bot. 43: 109. f. 1. 1968.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Brachymenium contortum* Griffith, 1843.
Correct name: *Brachymenium ochianum* Gangulee, 1974.
Type: Nepal. Iladanda, Selap, 1800-2600 m, *Kania, Murata & Togashi 236283*. Holotype: NICH.

B. corticola Mitten ex Ochi, Hikobia 4: 11. f. 13: h-m. 1964.
Type: India. "Belganum rains," [collector's name not apparently not on label and not cited by author] *1299*. Holotype: NY.

B. erectum (W. J. Hooker in Kunth) Margadant, Lindbergia 1: 124. 1972.
Basionym: *Bryum erectum* W. J. Hooker in Kunth, 1822.

B. exiloides Bardunov & Czerdantseva, Listos. Mhi Yuzhnogo Primor'ya 45. f. 2. 1982.
Type: U.S.S.R. Russia: regio Primorskensis, Sinus Vladimir, in fissuris litoralium, *Bardunov, Czerdantseva & Denisov, 1977*. Holotype: NS.

Brachymenium, continued.

B. himalayanum Dixon, Anniv. Vol. Bot. Gard. Calcutta 182. 1942.
Original placement: sect. *Orthocarpus*.
Note: not in Index Muscorum.

B. huonii T. Koponen & Norris, Acta Bot. Fenn. 131: 112. 1985.
Type: Papua New Guinea. Morobe: Mt. Sarawaket Southern Range, 2.5 km S of L. Gwam and E of Mt. Enggum, 3500-3570 m, *Koponen 32713*. Holotype: H; isotypes: HSC, LAE. Paratypes cited.

B. immarginatum Gao Chien & Chang Kung-chu, Acta Phytotax. Sin. 17: 116. f. 1: 22-33. 1979.
Type: China. Xizang: Zhongbai Xian, 4600 m, *Veg. Sect. Chinghai Tibet Team 7850(1)*. Holotype: IFP.

B. jilinense T. Koponen et al., Ann. Bot. Fenn. 22: 151. f. 1-2. 1985.
Type: China. Jilin: Antu, Mt. Chang Bai, 1800-1900 m, *Koponen 36796*. Holotype: H; isotypes: IFP, PE, herb. Ochi, herb. Shaw.

B. microstomum Harvey in W. J. Hooker, Icon. Pl. 1: pl. 19: f. 4. 1836.
Other use: *Pseudopohlia microstoma* (Harvey in W. J. Hooker) U. Mizushima, 1971.

B. mnioides Bescherelle, J. Bot. (Morot) 16: 7. 1902.
Other use: *Brachymenium wrightii* var. *mnioides* (Bescherelle) Florschütz, 1964.

B. notarisii (Mitten) A. J. Shaw, Mem. New York Bot. Gard. 45: 685. 1987.
Basionym: *Bryum notarisii* Mitten, 1864.

B. ochianum Gangulee, Mosses E. India 4: 934. 1974.
Replaced name: *Brachymenium contortum* Hampe ex Ochi, 1968.
Blocking name: *Brachymenium contortum* Griffith, 1843.

B. paradoxum (Herzog) A. J. Shaw, Mem. New York Bot. Gard. 45: 685. 1987.
Basionym: *Mielichhoferia paradoxa* Herzog, 1919.

B. ptychothecium (Bescherelle) Ochi, Advancing Frontiers Pl. Sci. 4: 108. 1963.
Basionym: *Bryum ptychothecium* Bescherelle, 1892.

B. wabagense (E. B. Bartram) T. Koponen & Norris, Ann. Bot. Fenn. 21: 287. 1984.
Basionym: *Bryum wabagense* E. B. Bartram, 1961.

B. wrightii (Sullivant) Brotherus, 1903.

B. wrightii var. *mnioides* (Bescherelle) Florschütz, Fl. Suriname 6(1): 195. 1964.
Basionym: *Brachymenium mnioides* Bescherelle, 1902.

Brachymitrion Taylor, 1846.

B. cochabambae (C. Müller) A. Koponen, Ann. Bot. Fenn. 14: 196. 1977.
Basionym: *Tayloria cochabambae* C. Müller, 1897.

B. laciniatum (Spruce) A. Koponen, Ann. Bot. Fenn. 14: 196. 1977.
Basionym: *Tayloria laciniata* Spruce, 1860.

B. moritzianum (C. Müller) A. Koponen, Ann. Bot. Fenn. 14: 195. 1977.
Basionym: *Tayloria moritziana* C. Müller, 1846.

B. pocsii (A. Koponen) A. Koponen, Ann. Bot. Fenn. 14: 196. 1977.
Basionym: *Tayloria pocsii* A. Koponen, 1975.

Brachyodon Fürnrohr, 1827.
B. bruchioides C. Müller, Bull. Herb. Boissier 6: 42. 1898, "*Brachyodus*."
Other use: *Eobruchia bruchioides* (C. Müller) Buck, 1979.

Brachythecium W. P. Schimper in B.S.G., 1853.
B. subgen. *Chamberlainia* (Grout) Vohra, Rec. Bot. Surv. India 23: 215. 1983.
Basionym: *Chamberlainia* Grout, 1928.
B. sect. *Salebrosa* Brotherus, Nat. Pflanzenfam. 1(3): 1142. 1908.
Other use: *Chamberlainia* sect. *Salebrosa* (Brotherus) H. Robinson, 1962 [1963].
B. sect. *Velutina* De Notaris, Atti R. Univ. Genova 1: 107. 1869.
Other use: *Chamberlainia* sect. *Velutina* (De Notaris) H. Robinson, 1962 [1963].
B. acuminatum (Hedwig) Rau & Hervey, 1880.
B. acuminatum var. *cyrtophyllum* (Kindberg) Redfearn ex H. Crum, Contr. Univ. Michigan Herb. 10: 287. 1973.
Basionym: *Brachythecium cyrtophyllum* Kindberg, 1890.
Note: invalid, basionym not cited (Article 33.2), in Ann. Missouri Bot. Gard. 59: 79. 1972.
B. angustirete Brotherus, Rev. Bryol., n.s. 2: 11. 1929.
Other use: *Eurhynchium angustirete* (Brotherus) T. Koponen, 1967.
B. appleyardiae McAdam & A. J. E. Smith, J. Bryol. 11: 591. f. 1-4. 1981 [1982].
Type: United Kingdom. England: Somerset, Harptree Combe, *Appleyard*, 1979. Holotype: NMW.
B. austrostramineum (C. Müller in Neumayer) Ochyra in Ochyra, Vitt & D. G. Horton, Cryptog. Bryol. Lichénol. 7: 57. 1986.
Basionym: *Hypnum austrostramineum* C. Müller in Neumayer, 1890.
B. brandegei (Austin) H. Robinson, Bryologist 65: 125. 1962 [1963].
Basionym: *Hypnum brandegei* Austin, 1878.
B. buchananii (W. J. Hooker) Jaeger, 1878, "*buchanani*."
B. buchananii var. *cuspidiferum* (Mitten) Gangulee & Vohra in Gangulee, Mosses E. India 7: 1712. 1978.
Basionym: *Hypnum cuspidiferum* Mitten, 1859.
B. calcareum Kindberg, Rev. Bryol. 22: 86. 1895.
Other use: *Chamberlainia calcarea* (Kindberg) H. Robinson, 1962 [1963].
**B. calliergonoides* Brotherus ex Iishiba, Bot. Mag. (Tokyo) 49: 601. 1935.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Brachythecium calliergonoides* Brotherus in Herzog, 1916.
Correct name: *Brachythecium takakii* H. Robinson, 1963.
B. chakratense Vohra, Bull. Bot. Surv. India 22: 118. f. 22-23. 1980 [1982].
Type: India. Garhwal, Himalayas, Churani to Chakrata, 2135 m, *Vohra 1804*. Holotype: CAL.
B. cirrosum (Schwägrichen in Schultes) W. P. Schimper, 1860.
B. cirrosum var. *coloradense* (Austin) Wijk & Margadant, Taxon 17: 467. 1968.
Basionym: *Hypnum coloradense* Austin, 1877.

Brachythecium, continued.

B. cirrosum var. *histrio* (Amann) Wijk & Margadant, Taxon 17: 467. 1968.
Basionym: *Eurhynchium cirrosum* var. *histrio* Amann, 1925.
Note: valid, error of bibliographic citation of basionym (Article 33.2), "*Cirriphyllum histrio* Clum. in Amann, Fl. Mouss. Suisse 2: 317. 1919."

B. cyrtophyllum Kindberg, Ottawa Naturalist 4: 63. 1890.
Other use: *Brachythecium acuminatum* var. *cyrtophyllum* (Kindberg) Redfearn ex H. Crum, 1973.

B. delicatulum Flowers, Bryologist 76: 287. 1973.
Type: U.S.A. Utah: Salt Lake County, Wasatch Mts., City Creek Canyon, 5700 feet, *Flowers 7125*. Holotype: UT.

B. delicatum H. Robinson, Bryologist 67: 450. f. 23-27. 1964.
Type: Mexico. Veracruz: 33 km NE of Perote on Route 140, 2320 m, *Hale & Soderstrom 19357*. Holotype: US.

B. digastrum C. Müller ex Kindberg in Macoun, Cat. Canad. Pl., Musci 190. 1892.
Other use: *Chamberlainia digastra* (C. Müller ex Kindberg in Macoun) H. Robinson, 1962 [1963].

B. erythrorrhizon W. P. Schimper in B.S.G., Bryol. Eur. fasc. 52-54. Monogr. 14. pl. 13 (6: 18. pl. 547). 1853.
Other use: *Chamberlainia erythrorrhiza* (W. P. Schimper in B.S.G.) H. Robinson, 1962 [1963].

B. garhwalense Vohra, Bull. Bot. Surv. India 22: 120. f. 33-41. 1980 [1982].
Type: India. Himalayas, Jaunsar Bahar, Deoban, 2135-2440 m, *Duthie*, 1879. Holotype: CAL.

B. geheebii Milde, Hedwigia 8: 161. 1869, "*gehebii*."
Other use: *Homalothecium geheebii* (Milde) Wigh, 1973.

B. leibergii Grout, Mem. Torrey Bot. Club 6: 197. 1897.
Other use: *Chamberlainia leibergii* (Grout) H. Robinson, 1962 [1963].

B. majusculum Newton, Brit. Antarct. Surv. Bull. 39: 45. f. 1. 1974.
Type: South Georgia. Bird Island: behind Jordon Cove, 200 feet, *Greene 266*. Holotype: AAS; isotypes: BA, CHR, H, INACH, NY, S-PA, TNS. Other indicated distribution: Tierra del Fuego.

B. negrii Tosco & Piovano, Allionia 4: 147. f. 24. 1956.
Note: not in Index Muscorum.

B. nelsonii Grout, 1902, "*nelsoni*."

B. nelsonii var. *intermedium* Flowers, Bryologist 76: 288. 1973.
Type: U.S.A. Utah: San Juan Co., La Sal Mts., near Geyser Pass, 9000 feet, *Flowers 2692*. Holotype: UT.

B. nitidulum (Brotherus) Noguchi, Misc. Bryol. Lichenol. 8: 150. 1980.
Basionym: *Amblystegium nitidulum* Brotherus, 1921.

B. noveboracense Grout, Bryologist 3: 12. 1900.
Other use: *Brachythecium rivulare* var. *noveboracense* (Grout) H. Robinson, 1962 [1963].

B. pachytheca (Dixon) Vohra, Bull. Bot. Surv. India 21: 171. 1979 [1981].
Basionym: *Campylium pachytheca* Dixon, 1938.

Brachythecium, continued.

B. pennellii E. B. Bartram, Notul. Nat. Acad. Nat. Sci. Philadelphia 229: 3. 1951.
Other use: *Leptodictyum pennellii* (E. B. Bartram) H. Robinson, 1962 [1963].

B. reflexum (Starke in Weber & D. Mohr) W. P. Schimper in B.S.G., 1853.

B. reflexum var. *pacificum* Renauld & Cardot in Röll, Bot. Centralbl. 44: 422. 1890.
Other use: *Brachythecium starkii* var. *pacificum* (Renauld & Cardot in Röll) E. Lawton, 1971.

B. rivulare W. P. Schimper in B.S.G., 1853.

B. rivulare var. *alare* (Dixon) Vohra, Bull. Bot. Surv. India 21: 171. 1979 [1981].
Basionym: *Cirriphyllum alare* Dixon, 1938.

**B. rivulare* var. *laxum* Grout, Bryologist 4: 48. f. 1: a, c. 1901.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Brachythecium rivulare* var. *laxum* De Notaris, 1869.
Correct name: *Brachythecium rivulare* var. *sublaxum* H. Crum, Steere & L. E. Anderson, 1964.

B. rivulare var. *noveboracense* (Grout) H. Robinson, Bryologist 65: 124. 1962 [1963].
Basionym: *Brachythecium noveboracense* Grout, 1900.

B. rivulare var. *sublaxum* H. Crum, Steere & L. E. Anderson, Bryologist 67: 163. 1964.
Replaced name: *Brachythecium rivulare* var. *laxum* Grout, 1901.
Blocking name: *Brachythecium rivulare* var. *laxum* De Notaris, 1869.

B. rotaeanum De Notaris, Cronac. Briol. Ital. 2: 19. 1867.
Other use: *Chamberlainia rotaeana* (De Notaris) H. Robinson, 1962 [1963].

B. serrulatum (Hedwig) H. Robinson, Bryologist 65: 125. 1962 [1963].
Basionym: *Hypnum serrulatum* Hedwig, 1801.

B. splendens Austin, Bot. Gaz. (Crawfordsville) 2: 111. 1877.
Other use: *Chamberlainia splendens* (Austin) H. Robinson, 1962 [1963].

B. starkii (Bridel) W. P. Schimper in B.S.G., 1853.

B. starkii var. *pacificum* (Renauld & Cardot in Röll) E. Lawton, Moss Fl. Pacific Northwest 297. 1971.
Basionym: *Brachythecium reflexum* var. *pacificum* Renauld & Cardot in Röll, 1890.

B. starkii var. *tromsoeense* (Kaurin & H. Arnell in H. Arnell & C. E. O. Jensen) Nyholm, Ill. Moss Fl. Fennoscandia. II. Musci 776. 1969.
Basionym: *Hypnum tromsoeense* Kaurin & H. Arnell in H. Arnell & C. E. O. Jensen, 1896.
Note: invalid, basionym not cited (Article 33.2), in Ill. Moss Fl. Fennoscandia. II. Musci 534. 1965.

B. suberythrorrhizon Renauld & Cardot, Bot. Gaz. (Crawfordsville) 19: 238. pl. 22: b. 1894.
Other use: *Chamberlainia collina* var. *suberythrorrhiza* (Renauld & Cardot) H. Robinson, 1962 [1963].

B. subrectocarpum Dixon, Rec. Bot. Surv. India 12: 177. 1938.
Other use: *Rhynchostegium subrectocarpum* (Dixon) Vohra, 1979 [1981].

Brachythecium, continued.

B. takakii H. Robinson, Bryologist 66: 139. 1963.
Replaced name: *Brachythecium calliergonoides* Brotherus ex Iishiba, 1935.
Blocking name: *Brachythecium calliergonoides* Brotherus in Herzog, 1916.

B. thedenii W. P. Schimper in B.S.G., Bryol. Eur. 6: 21. pl. 551. (fasc. 52-54 Monogr. 18. pl. 17). 1853.
Other use: *Chamberlainia erythrorrhiza* var. *thedenii* (W. P. Schimper in B.S.G.) H. Robinson, 1962 [1963].

B. uncinifolium Brotherus & Paris, Rev. Bryol. 31: 64. 1904.
Other use: *Cratoneurella uncinifolia* (Brotherus & Paris) H. Robinson, 1962 [1963].

B. utahense T. P. James in S. Watson, Botany Fortieth Parallel 18(5): 409. 1871.
Other use: *Chamberlainia collina* var. *utahensis* (T. P. James in S. Watson) H. Robinson, 1962 [1963].

B. zanonii Buck, Beih. Nova Hedwigia 90: 342. 1988.
Type: Haiti. Dept. Sud'est: about 2-3 km E of Seguin, 5800 feet, *Adams & Zanoni 11277*. Holotype: NY; isotype: JBSD.

Braunia Bruch & W. P. Schimper in B.S.G., 1846.

B. exserta C. Müller, 1879.

B. exserta var. *reflexifolia* C. Müller, Linnaea 42: 380. 1879.
Other use: *Braunia reflexifolia* (C. Müller) E. B. Bartram, 1964-65 [1965].

B. reflexifolia (C. Müller) E. B. Bartram, Rev. Bryol. Lichénol. 33: 326. 1964-65 [1965].
Basionym: *Braunia exserta* var. *reflexifolia* C. Müller, 1879.

Breedlovea H. Crum, Bryologist 89: 23. f. 8-11. 1986.
Type: *B. chiapensis* Crum, holotype.
Original placement: Dicranaceae.

B. chiapensis H. Crum, Bryologist 89: 23. f. 8-11. 1986.
Type: Mexico. Chiapas: SW of Hwy. 190 near Rancho Nuevo, ca. 9 miles SE of San Cristobal las Casas, *Breedlove 15087*. Holotype: MICH.

Breidleria Loeske, 1910.

B. africana Potier de la Varde, Bull. Soc. Bot. France 87: 362. f. 2: 18. 1940.
Other use: *Hypnum africanum* (Potier de la Varde) Ochyra in Ochyra & Pócs, 1982.

B. lindbergii (Mitten) Schultze-Motel, Nova Hedwigia 5: 88. 1963.
Basionym: *Hypnum lindbergii* Mitten, 1864.

Breutelia (Bruch & W. P. Schimper) W. P. Schimper, 1856.

B. aristifolia Zanten, Nova Guinea, Bot. 10(16): 294. pl. 24: f. 4. 1964.
Type: Indonesia [New Guinea]. Irian Barat: Mt. Antares, W summit, 3400 m, *Zanten 676*. Holotype: L; isotype: GRO.

Breutelia, continued.

B. borbonica Sloover, Bull. Jard. Bot. Natl. Belgique 45: 257. f. 132-156. 1975.
Type: Reunion. Cirque de Cilaos, 1950 m, *Sloover 17162*. Holotype: BR.

B. elliptica Magill, Fl. S. Africa, Bryophyta, Mosses 2: 435. f. 125: 12-18. 1987.
Type: South Africa. Cape: Prince Alfred's Pass, S of Uniondale, *Magill 5949*. Holotype: PRE; isotypes: FLAS, MO, NAM.

B. lebrunii Demaret & J. Leroy, Explor. Parc Natl. Albert, Mission Lebrun 6: 30. f. 35-38. 1944.
Note: not in Index Muscorum.

B. maegdefraui H. Crum, Contr. Univ. Michigan Herb. 16: 137. 1987.
Replaced name: *Breutelia rhytidioides* H. Crum in Mägdefrau, 1983.
Blocking name: *Breutelia rhythidioides* Herzog, 1934.

B. magadalenae Sloover, Bull. Jard. Bot. Natl. Belgique 45: 266. f. 230-250. 1975.
Type: Reunion. Cirque de Cilaos, 2200 m, *Sloover 17904*. Holotype: BR.

**B. rhytidioides* H. Crum in Mägdefrau, Nova Hedwigia 38: 58. f. 6. 1983.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Breutelia rhythidioides* Herzog, 1934.
Correct name: *Breutelia maegdefraui* H. Crum, 1987.
Type: Colombia. Bogota: Paramo de Palacio E of la Calera, 3400 m, *Mägdefrau 1570*. Holotype: MICH; isotype: M.

B. ryvardenii Bizot, Rev. Bryol. Lichénol. 42: 850. 1976.
Type: Malawi. Southern Prov.: Mulaje, Mulanje Mts., Likabula Valley, 900-1600 m, *Ryvarden*, 1973. Holotype: herb. Bizot; isotype: O.

B. substricta (W. P. Schimper in C. Müller) Magill, Fl. S. Africa, Bryophyta, Mosses 2: 437. 1987.
Basionym: *Bartramia substricta* W. P. Schimper in C. Müller, 1858.

Brothera C. Müller, 1900.

B. capillifolia Dixon, J. Bombay Nat. Hist. Soc. 39(4): 774. pl. 1: f. 1. 1937.
Other use: *Dicranodontium capillifolium* (Dixon) Takaki, 1968.

B. himalayana Brotherus, Nat. Pflanzenfam. 1(3): 330. 1901.
Other use: *Campylopodiella himalayana* (Brotherus) Frahm, 1984.

Brotherella Loeske ex Fleischer, 1914.

**B. brasiliensis* (H. Crum) H. Crum, Bryologist 88: 28. 1985.
*invalid, basionym not cited (Article 33.2).

B. celebensis Dixon, Ann. Bryol. 7: 34. 1934.
Other use: *Pylaisiadelpha celebensis* (Dixon) Buck, 1984.

B. complanata Reimers & Sakurai, Bot. Jahrb. Syst. 64: 555. pl. 22: f. 7-8. 1931.
Other use: *Pylaisiadelpha complanata* (Reimers & Sakurai) Buck, 1984.

B. coreana Sakurai, J. Jap. Bot. 24: 136. f. 6. 1949.
Other use: *Pylaisiadelpha coreana* (Sakurai) Buck, 1984.

B. crassipes Sakurai, J. Jap. Bot. 24: 133. f. 1. 1949.
Other use: *Pylaisiadelpha crassipes* (Sakurai) Buck, 1984.

Brotherella, continued.

B. dixonii Herzog, Ann. Bryol. 12: 95. f. 14. 1939.
Other use: *Pylaisiadelpha dixonii* (Herzog) Buck, 1984.

B. falcatula Brotherus in Handel-Mazzetti, Symb. Sin. 4: 119. 1929.
Other use: *Pylaisiadelpha falcatula* (Brotherus in Handel-Mazzetti) Buck, 1984.

B. filiformis Dixon, J. Bombay Nat. Hist. Soc. 39: 792. 1937.
Other use: *Pylaisiadelpha filiformis* (Dixon) Buck, 1984.

B. formosana Brotherus, Oefers. Förh. Finska Vetensk.-Soc. 62A(9): 40. 1921.
Other use: *Pylaisiadelpha formosana* (Brotherus) Buck, 1984.

B. handelii Brotherus, Sitzungsber. Kaiserl. Akad. Wiss. Math.-Naturwiss. Cl., Abt. 1, 131: 219. 1922.
Other use: *Pylaisiadelpha handelii* (Brotherus) Buck, 1984.

B. herbacea Sakurai in Oti, Bot. Mag. (Tokyo) 63: 82. 1950.
Other use: *Pylaisiadelpha herbacea* (Sakurai in Oti) Buck, 1984.

B. himalayana Chen Pan-chieh, Zhumulangma Feng Diqu Kexue Kaocha Baogao 233. 1962, "*himalayanum*."
Other use: *Pylaisiadelpha himalayana* (Chen Pan-chieh) Lin Shan-Hsiung, 1984.
Note: not in Index Muscorum.

B. integrifolia Brotherus, Ann. Bryol. 1: 24. 1928.
Other use: *Pylaisiadelpha integrifolia* (Brotherus) Buck, 1984.

B. longipes Brotherus, Mitt. Inst. Allg. Bot. Hamburg 7(2): 132. 1928.
Other use: *Pylaisiadelpha longipes* (Brotherus) Buck, 1984.

B. minutula E. B. Bartram, Contr. U.S. Natl. Herb. 26: 108. f. 36: a-e. 1928.
Other use: *Pylaisiadelpha minutula* (E. B. Bartram) Buck, 1984.

B. nakanishikii (Brotherus) Noguchi, J. Hattori Bot. Lab. 57: 69. 1984.
Basionym: *Acanthocladium nakanishikii* Brotherus, 1921.

B. piliformis Brotherus, Sitzungsber. Kaiserl. Akad. Wiss. Math.-Naturwiss. Cl., Abt. 1, 131: 219. 1922.
Other use: *Pylaisiadelpha piliformis* (Brotherus) Buck, 1984.

B. subintegra Brotherus, Ann. Bryol. 1: 24. 1928.
Other use: *Pylaisiadelpha subintegra* (Brotherus) Buck, 1984.

Brotherobryum Fleischer, 1914.

B. sleumeri B. H. Allen, Lindbergia 10: 116. f. 9-17. 1984 [1985].
Type: Papua New Guinea. Eastern Highlands, Goroka, Marafunga, 2400-2500 m, *Sleumer 4567*. Holotype: L.

B. undulatifolium Zanten, Nova Guinea, Bot. 10(16): 273. pl. 23: f. 2. 1964.
Type: Indonesia [New Guinea]. Irian Barat: Mt. Antares, below W summit, 3300 m, *Zanten 697*. Holotype: L; isotype: GRO.

Bruchia Schwägrichen, 1824.

B. amoena C. Müller, Flora 71: 11. 1888.
Other use: *Trematodon amoenus* (C. Müller) Stone & G. A. M. Scott in G. A. M. Scott & Stone, 1976.

Bruchia, continued.

B. foveolata Magill, Fl. S. Africa, Bryophyta, Mosses 1: 108. f. 28: 1-12. 1981 [1982].
Type: Namibia. Windhoek: Farm Rietfontein, *Volk 01160a*. Holotype: PRE; isotypes: MO, herb. Volk.

B. minuta Mitten in J. D. Hooker, Fl. Tasman. 2: 165. pl. 171: f. 4. 1859.
Other use: *Eccremidium minutum* (Mitten in J. D. Hooker) Steere & G. A. M. Scott, 1973 [1974].

B. queenslandica Stone, J. Bryol. 9: 509. f. 1; 3: a-h; 4: a-j. pl. 1: a-b. 1977.
Type: Australia. Queensland: track to Finch Hatton Gorge, W of Mackay, *Stone 12600*. Holotype: MEL; isotypes: BM, MELU, herb. Stone.

B. sinensis Chen Pan-chieh ex Cao Tong & Gao Chien, J. Hattori Bot. Lab. 64: 455. f. 4. 1988.
Type: China. Fujian: Wuyi Mountain, *Lang Kui-chang*, 1955. Holotype: IFSBH.
Note: invalid, cited as synonym (Article 34.l), in Chen Pan-chieh, Gen. Musc. Sin. 1: 114. 1963.

Bryhnia Kaurin, 1892.

B. brittoniae (Grout) H. Robinson, Bryologist 65: 134. 1962 [1963].
Basionym: *Eurhynchium brittoniae* Grout, 1898.

B. nepalensis Takaki in Noguchi, Takaki & H. Inoue, Bull. Natl. Sci. Mus. 9: 374. f. 2. 1966.
Type: Nepal. Junbesi, 2700 m, *Yoda 11437*. Holotype: TNS.

B. oregana (Sullivant) H. Robinson, Bryologist 65: 134. 1962 [1963].
Basionym: *Hypnum oreganum* Sullivant, 1849.

B. stokesii (Turner) H. Robinson, Bryologist 65: 134. 1962 [1963].
Basionym: *Hypnum stokesii* Turner, 1804.

Brymela Crosby & B. H. Allen, Monogr. Syst. Bot. Missouri Bot. Gard. 11: 211. f. 1-6. 1985.
Type: *B. tutezona* Crosby & Allen, holotype.
Original placement: Hookeriaceae.

B. acuminata (Mitten) Buck, Brittonia 39: 217. 1987.
Basionym: *Hookeria acuminata* Mitten, 1869.

B. callicostelloides (Herzog & Thériot) Buck, Brittonia 39: 217. 1987.
Basionym: *Hookeriopsis callicostelloides* Herzog & Thériot, 1935 [1934].

B. cuspidata (Jaeger) Buck, Brittonia 39: 217. 1989.
Basionym: *Hookeriopsis cuspidata* Jaeger, 1877.

B. fissidentoides (J. D. Hooker & Wilson in W. J. Hooker) Buck, Brittonia 39: 217. 1989.
Basionym: *Hookeria fissidentoides* J. D. Hooker & Wilson in W. J. Hooker, 1848.

B. fluminensis (Geheeb & Hampe) Buck, Brittonia 39: 217. 1987.
Basionym: *Hookeria fluminensis* Geheeb & Hampe, 1881.

Brymela, continued.
B. obtusifolia (E. B. Bartram) Buck, Brittonia 39: 218. 1987.
Basionym: *Hookeriopsis obtusifolia* E. B. Bartram, 1928.
B. parkeriana (W. J. Hooker & Greville) Buck, Brittonia 39: 218. 1987.
Basionym: *Hookeria parkeriana* W. J. Hooker & Greville, 1825.
B. rugulosa (Mitten) Buck, Brittonia 39: 218. 1987.
Basionym: *Hookeria rugulosa* Mitten, 1869.
B. tutezona Crosby & B. H. Allen, Monogr. Syst. Bot. Missouri Bot. Gard. 11: 211. f. 1-6. 1985.
Type: Panama. Veraguas: N of Santa Fe, summit of Cerro Arizona, 1570 m, *Hammel 4740*. Holotype: MO; isotypes: BM, DUKE, NICH, PMA. Paratype cited.
B. websteri (H. Crum & E. B. Bartram) Buck, Brittonia 39: 218. 1987.
Basionym: *Hookeriopsis websteri* H. Crum & E. B. Bartram, 1958.

Bryoacantholoma Schultze-Motel, Taxon 12: 127. 1963.
Replaced name: *Acantholoma* Herzog, 1926.
Blocking name: *Acantholoma* Baillon, 1866.
B. vaginatum (Herzog) Schultze-Motel, Taxon 12: 127. 1963.
Basionym: *Acantholoma vaginatum* Herzog, 1926.

Bryoandersonia H. Robinson, 1962 [1963].
Type: *Hypnum illecebrum* Hedwig, *B. illecebra* (Hedwig) H. Robinson.
Original placement: Brachytheciaceae.
B. illecebra (Hedwig) H. Robinson, Bryologist 65: 139. 1962 [1963].
Basionym: *Hypnum illecebrum* Hedwig, 1801.

Bryobartlettia Buck, Brittonia 33: 479. 1981.
Type: *B. costata* Buck, holotype.
Original placement: Leskeaceae.
B. costata Buck, Brittonia 33: 479. f. 14-18. 1981.
Type: New Zealand. South Island: Cobb Valley, near Alpine Garden above Cobb Reservior, Tusman Mountains, NW Nelson, 2700 feet, *Bartlett Fl.* Holotype: NY; isotypes: ALTA, herb. Bartlett.

Bryobartramia Sainsbury, 1948.
B. novae-valesiae (Brotherus ex G. Roth) Stone & G. A. M. Scott, J. Bryol. 7: 604. 1973 [1974].
Basionym: *Trachycarpidium novae-valesiae* Brotherus ex G. Roth, 1913.

Bryobeckettia Fife, J. Hattori Bot. Lab. 58: 191. 1985.
Type: *Physcomitrella bartlettii* Fife, *B. bartlettii* (Fife) Fife, holotype.
Original placement: Funariaceae.
B. bartlettii (Fife) Fife, J. Hattori Bot. Lab. 58: 191. 1985.
Basionym: *Physcomitrella bartlettii* Fife, 1982.

Bryobrittonia R. S. Williams, 1901.
B. longipes (Mitten) D. G. Horton, Brittonia 30: 19. 1978.
Basionym: *Encalypta longipes* Mitten, 1864.

Bryochenea Gao Chien & Chang Kung-chu, Bull. Bot. Res. (Harbin) 2: 115. 1982.
Type: *B. ciliata* Gao Chien & Chang Kung-chu, holotype.
Original placement: Thuidiaceae.
B. ciliata Gao Chien & Chang Kung-chu, Bull. Bot. Res. (Harbin) 2: 117. f. 2. 1982.
Type: China. Hubei: Wufeng Xian, Mt. Jianbengzishan, 1840 m, *Fu 5-023*. Holotype: ISPH.
B. sachalinensis (Lindberg) Gao Chien & Chang Kung-chu, Bull. Bot. Res. (Harbin) 2: 118. 1982.
Basionym: *Thuidium sachalinense* Lindberg, 1872.

Bryocrumia L. E. Anderson, Phytologia 45: 65. 1980.
Type: *Glossadelphus andersonii* E. B. Bartram, *B. andersonii* (E. B. Bartram) L. E. Anderson, holotype.
Original placement: Hypnaceae.
B. andersonii (E. B. Bartram) L. E. Anderson, Phytologia 45: 66. 1980.
Basionym: *Glossadelphus andersonii* E. B. Bartram, 1951.
B. vivicolor (Brotherus & Dixon) Buck, Mem. New York Bot. Gard. 45: 522. 1987.
Basionym: *Taxithelium vivicolor* Brotherus & Dixon, 1914.

Bryodusenia H. Robinson, Phytologia 29: 118. 1974.
Replaced name: *Duseniella* Brotherus in Engler & Prantl, 1906.
Blocking name: *Duseniella* Schumann, 1902.
B. genuflexa (C. Müller) H. Robinson, Phytologia 29: 118. 1974.
Basionym: *Pilotrichum genuflexum* C. Müller, 1844 [1845].

Bryoerythrophyllum Chen Pan-chieh, 1941.
B. afrorubellum (Brotherus & H. A. Wager in Dixon) Sloover, Bull. Jard. Bot. Natl. Belgique 49: 398. 1979.
Basionym: *Didymodon afrorubellus* Brotherus & H. A. Wager in Dixon, 1920.
B. andersonianum Zander & A. J. Sharp, Bryologist 84: 545. f. 1-11. 1981 [1982].
Type: Mexico. Veracruz: road from Perote to Cofre de Perote, 3750 m, *Sharp, Juarez, Baez & Boom 53c*. Holotype: TENN; isotype: BUF.
B. angustulum (Herzog) H. Robinson, Bryologist 70: 22. 1967.
Basionym: *Didymodon angustulus* Herzog, 1920.
B. bolivianum (C. Müller) Zander, Bryologist 81: 545. 1978 [1979].
Basionym: *Globulina boliviana* C. Müller, 1897.
B. brachystegium (Bescherelle) K. Saito, J. Jap. Bot. 47: 14. 1972.
Basionym: *Gymnostomum brachystegium* Bescherelle, 1898.

Bryoerythrophyllum, continued.

B. calcareum (Thériot) Zander, Bryologist 83: 232. 1980.
Basionym: *Barbula calcarea* Thériot, 1931.

B. caledonicum D. G. Long, J. Bryol. 12: 141. f. 2. 1982.
Type: United Kingdom. Scotland: Mid-Perth, Coire Heasgarnich, Forest of Mamlorn, 800 m, *Long & Chamberlain 6968*. Holotype: E; isotypes: BM, GL, herb. Birks, herb. Wallace.

B. columbianum (F. J. Hermann & E. Lawton) Zander, Bryologist 81: 548. 1978 [1979].
Basionym: *Didymodon columbianus* F. J. Hermann & E. Lawton, 1968.

B. columbianum var. *atacamense* Zander & M. A. Lewis, Bryologist 84: 536. f. 1-8. 1981 [1982], "*atacamensis*."
Type: Bolivia. Oruro: Atahuallpa, Cerro Pumiri, near Sabaya, NW of Lauguna Coipasa, 19°00' S, 68°24' W, *Lewis 79-1944*. Holotype: F; isotype: BUF.

B. compactum J. Fröhlich, Ann. Naturhist. Mus. Wien 67: 152. 1964.
Type: Afghanistan. Ghorat, in faucibus Mollah Allah, *Rechinger 19778*. Holotype: W. Paratype cited.

B. ferrugineum Gangulee, Nova Hedwigia 8: 147. pl. 5. 1964.
Type: India. Darjeeling Distr., *Kurz 2170*. Holotype: CAL.

B. inaequalifolium (Taylor) Zander, Bryologist 83: 232. 1980.
Basionym: *Barbula inaequalifolia* Taylor, 1846.

B. linearifolium K. Saito, J. Hattori Bot. Lab. 39: 481. f. 42: 1-10. 1975.
Type: Japan [Kyushu]. Miyzaki: Mt. Osuzu, *Fujikawa 37*. Holotype: TNS.

B. lusitanicum (Cardot & Dixon) M. O. Hill, J. Bryol. 11: 600. 1981 [1982].
Basionym: *Hyophila lusitanica* Cardot & Dixon, 1912.

B. machadoanum (Sérgio) M. O. Hill, J. Bryol. 11: 601. 1981 [1982].
Basionym: *Hyophila machadoana* Sérgio, 1969 [1970].

B. noguchianum (Gangulee) K. Saito in Noguchi & Iwatsuki, Bull. Univ. Mus. Univ. Tokyo 8: 254. 1975.
Basionym: *Bryoerythrophyllum yunnanense* var. *noguchianum* Gangulee, 1972.

B. recurvifolium (Taylor) Zander, Bryologist 75: 277. 1972.
Basionym: *Bryum recurvifolium* Taylor, 1843.

B. recurvirostre (Hedwig) Chen Pan-chieh, 1941.

B. recurvirostre var. *aeneum* (C. Müller) Zander, Bryologist 79: 229. 1976.
Basionym: *Trichostomum aeneum* C. Müller, 1851.

B. recurvirostre var. *angustifolium* (Potier de la Varde) Wijk & Margadant, Taxon 17: 467. 1968.
Basionym: *Didymodon rubellus* var. *angustifolius* Potier de la Varde, 1940.

B. recurvirostre var. *dentatum* (W. P. Schimper) H. Crum, Steere & L. E. Anderson, Bryologist 67: 163. 1964.
Basionym: *Didymodon rubellus* var. *dentatus* W. P. Schimper, 1860.
Note: redundant combination in Flowers, Bryologist 76: 288. 1973.

Bryoerythrophyllum, continued.

B. recurvirostre var. *robustum* K. Saito, J. Hattori Bot. Lab. 39: 474. f. 39: 12-15. 1975.
Type: Japan [Honshu]. Nagano: Miwa-mura, Todai, *Saito 9101*. Holotype: TNS.

B. recurvum (Griffith) K. Saito in Noguchi & Iwatsuki, Bull. Univ. Mus. Univ. Tokyo 8: 254. 1975.
Basionym: *Gymnostomum recurvum* Griffith, 1842.

B. rubrum (Juratzka ex Geheeb) Chen Pan-chieh, 1941.

B. rubrum var. *minus* K. Saito, J. Hattori Bot. Lab. 39: 476. f. 40: 1-11. 1975.
Type: Japan [Honshu]. Saitama: Chichibu, Ochigawa River, Nishi-dani, *Saito 291*. Holotype: TNS.

B. sharpii Zander, Bryologist 89: 13. f. 1-7. 1986.
Type: Mexico. Oaxaca: 29 km W of Miahuatlan on Hwy. 175, *Sharp et al. 3019*. Holotype: BUF; isotypes: MEXU, TENN. Paratypes cited.

B. yichunense Gao Chien, Fl. Musc. Chin. Boreali-Orient. 379. f. 80. 1977.
Type: China. Heilongjiang: Xiao-chingan Yichun, *Chen & Gao 346*. Holotype: IFP.

B. yunnanense (Herzog) Chen Pan-chieh, 1941.

B. yunnanense var. *noguchianum* Gangulee, Mosses E. India 3: 750. f. 360. 1972.
Type: India. Phalut, 3559 m, *Univ. Tokyo Bot. Exped. 201496*. Holotype: NICH.
Other use: *Bryoerythrophyllum noguchianum* (Gangulee) K. Saito in Noguchi & Iwatsuki, 1975.

Bryohaplocladium R. Watanabe & Iwatsuki, J. Jap. Bot. 56: 259. 1981.
Replaced name: *Haplocladium* (C. Müller) C. Müller, 1896.
Blocking name: *Haplocladium* Naegeli, 1862.

B. angustifolium (Hampe & C. Müller) R. Watanabe & Iwatsuki, J. Jap. Bot. 56: 259. 1981.
Basionym: *Hypnum angustifolium* Hampe & C. Müller, 1855.

B. discolor (Brotherus & Paris) R. Watanabe & Iwatsuki, J. Jap. Bot. 56: 259. 1981.
Basionym: *Thuidium discolor* Brotherus & Paris, 1904.

B. larminatii (Brotherus & Paris) R. Watanabe & Iwatsuki, J. Jap. Bot. 56: 259. 1981.
Basionym: *Pseudoleskea larminatii* Brotherus & Paris, 1904.

B. mexicanum (Cardot) R. Watanabe & Iwatsuki, J. Jap. Bot. 56: 260. 1981.
Basionym: *Haplocladium mexicanum* Cardot, 1909.

B. microphyllum (Hedwig) R. Watanabe & Iwatsuki, J. Jap. Bot. 56: 260. 1981.
Basionym: *Hypnum microphyllum* Hedwig, 1801.

B. parvulum (R. Watanabe in Iwatsuki) R. Watanabe & Iwatsuki, J. Jap. Bot. 56: 260. 1981.
Basionym: *Haplocladium parvulum* R. Watanabe in Iwatsuki, 1979.

Bryohaplocladium, continued.
B. perparaphyllum (R. Watanabe) R. Watanabe & Iwatsuki, J. Jap. Bot. 56: 260. 1981.
Basionym: *Haplocladium perparaphyllum* R. Watanabe, 1972.
B. persistens (C. Müller) R. Watanabe & Iwatsuki, J. Jap. Bot. 56: 260. 1981.
Basionym: *Hypnum persistens* C. Müller, 1882.
B. porphyropelma (C. Müller) R. Watanabe & Iwatsuki, J. Jap. Bot. 56: 260. 1981.
Basionym: *Haplocladium porphyropelma* C. Müller, 1901.
B. praelongum (W. P. Schimper ex Bescherelle) H. Crum, Bryologist 87: 211. 1984.
Basionym: *Pseudoleskea praelonga* W. P. Schimper ex Bescherelle, 1872.
B. schimperi (Thériot) R. Watanabe & Iwatsuki, J. Jap. Bot. 56: 260. 1981.
Basionym: *Haplocladium schimperi* Thériot, 1930.
B. schwetschkeoides (Cardot) R. Watanabe & Iwatsuki, J. Jap. Bot. 56: 260. 1981.
Basionym: *Pseudoleskea schwetschkeoides* Cardot, 1911.
B. strictulum (Cardot) R. Watanabe & Iwatsuki, J. Jap. Bot. 56: 260. 1981.
Basionym: *Thuidium strictulum* Cardot, 1904.
B. virginianum (Bridel) R. Watanabe & Iwatsuki, J. Jap. Bot. 56: 260. 1981.
Basionym: *Hypnum virginianum* Bridel, 1827.

Bryohumbertia Potier de la Varde & Thériot, 1940.
B. filifolia (Hornschuch) Frahm, Cryptog. Bryol. Lichénol. 3: 366. 1982.
Basionym: *Dicranum filifolium* Hornschuch, 1840.
B. flavicoma (C. Müller ex Brotherus) Frahm, Cryptog. Bryol. Lichénol. 3: 366. 1982.
Basionym: *Campylopus flavicoma* C. Müller ex Brotherus, 1897.
B. metzlerelloides Potier de la Varde & Thériot, Bull. Soc. Bot. France 86: 422. f. 1. 1939.
Other use: *Campylopus metzlerelloides* (Potier de la Varde & Thériot) Bizot in Bizot & Pócs, 1979 [1980].
B. subcomosa (Dixon) Frahm, Trop. Bryol. 1: 9. 1989.
Basionym: *Campylopus subcomosus* Dixon, 1922.
B. walkeri (Mitten) Frahm, Acta Bot. Fenn. 131: 68. 1985.
Basionym: *Dicranum walkeri* Mitten, 1859.

Bryomanginia Thériot, 1931.
B. radiculosa (Herzog) Zander, Bryologist 81: 333. 1978.
Basionym: *Melophyllum radiculosum* Herzog, 1939.

Bryomnium Cardot, 1909.
B. solitarium Cardot, Rev. Bryol. 36: 19. 1909.
Other use: *Tayloria solitaria* (Cardot) T. Koponen & W. A. Weber, 1972.

Bryonoguchia Iwatsuki & H. Inoue, Misc. Bryol. Lichenol. 5: 107. 1970.
Replaced name: *Tetracladium* (Mitten) Brotherus in Engler & Prantl, 1925.
Blocking name: *Tetracladium* De Wildeman, 1893.
B. molkenboeri (Sande Lacoste) Iwatsuki & H. Inoue, Misc. Bryol. Lichenol. 5: 107. 1970.
Basionym: *Thuidium molkenboeri* Sande Lacoste, 1866.

Bryonorrisia Stark & Buck, Brittonia 38: 52. 1986.
Type: *Forrstroemia secunda* Dixon & Badwar, *B. secunda* (Dixon & Badwar) Stark & Buck.
Original placement: Anomodontaceae.
B. secunda (Dixon & Badhwar) Stark & Buck, Brittonia 38: 52. 1986.
Basionym: *Forsstroemia secunda* Dixon & Badhwar, 1938.

Bryosedgwickia Cardot & Dixon, 1912.
B. barlassinae Tosco & Piovano, Allionia 4: 175. f. 44-46. 1956.
Note: not in Index Muscorum.
B. fragilifolia (Dixon) Buck, Brittonia 31: 393. 1979.
Basionym: *Trachyphyllum fragilifolium* Dixon, 1938.
B. kirtikarii Cardot & Dixon in Dixon, J. Bot. 50: 154. pl. 517: f. 3. 1912.
Other use: *Platygyriella kirtikarii* (Cardot & Dixon in Dixon) Buck, 1984.

Bryowijkia Noguchi, J. Hattori Bot. Lab. 37: 240. 1973.
Type: *Pterogonium ambiguum* W. J. Hooker, *B. ambigua* (W. J. Hooker) Noguchi, holotype.
Original placement: Hedwigiaceae.
B. ambigua (W. J. Hooker) Noguchi, J. Hattori Bot. Lab. 37: 241. 1973.
Basionym: *Pterogonium ambiguum* W. J. Hooker, 1808.

Bryum Hedwig, 1801.
B. sect. *Webera* Relhan, Fl. Cantab. (ed. 2) 421. 1802.
Replaced name: *Webera* Hedwig, 1801.
Other use: *Pohlia* sect. *Webera* (Relhan) Margadant, 1972.
Note: new name, based on adoption of earler epithet (Article 72.Note 1).
**B. acuminatum* (Hoppe & Hornschuch) Bruch & W. P. Schimper, Bryol. Eur. 4: 91 (fasc. 6-9 Monogr. 21). 1839.
*illegitimate, type of earlier name included (Article 63.1).
Basionym: *Pohlia acuminata* Hoppe & Hornschuch, 1819.
Earlier name: *Pohlia minor* Schleicher ex Schwägrichen, 1816.
**B. acuminatum* Sim, Trans. Roy. Soc. South Africa 15: 336. illustration. 1926.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Bryum acuminatum* (Hoppe & Hornschuch) Bruch & W. P. Schimper, 1839.
Correct name: *Bryum simii* Schelpe in Magill & Schelpe, 1979.

Bryum, continued.

B. acuminatum [rank not indicated] *curvirostrum* Bruch & W. P. Schimper, Bryol. Eur. 4: 92. pl. 343: acuminatum ∈ *β* (fasc. 6-9. Monogr. Bryum 22. pl. 7: acuminatum ∈ *β*). 1839.

Other use: *Pohlia minor* fo. *curvirostrum* (Bruch & W. P. Schimper) Margadant, 1972.

Note: not in Index Muscorum; valid without indication of rank (Article 35.2).

B. acutiforme Limpricht in I. Hagen, Tromsø Mus. Aarsh. 21-22(2): 156. 1901.

Other use: *Bryum axel-blyttii* var. *acutiforme* (Limpricht in I. Hagen) Margadant, 1972.

B. acutiusculum C. Müller, Flora 70: 220. 1887.

Other use: *Bryum pallens* subsp. *acutiusculum* (C. Müller) Podpera, 1973.

**B. acutum* Lindberg, 1886.

*illegitimate, later homonym (Article 64.1).

Earlier name: *Bryum acutum* (Hedwig) Hudson ex Withering, 1801.

B. acutum var. *brotheriellum* Podpera, Bryum Gen. Monogr. Prodr. 17: 262. 1973.

Type: U.S.S.R. Lapponia murmanica, Bumansfjord, *Brotherus*, 1885. Holotype: "H.L.D."

B. acutum var. *chondrocarpum* Podpera, Bryum Gen. Monogr. Prodr. 17: 261. 1973.

Type: U.S.S.R. Sibiria, Jenisej, Nikandrovskij ostrov, *Arnell s.n.* Holotype: "H.M.H."

B. agattuense Philibert, Rev. Bryol. 28: 35. 1901.

Other use: *Bryum maritimum* subsp. *agattuense* (Philibert) Podpera, 1973.

B. alaskanum Kindberg, Eur. N. Amer. Bryin. 2: 381. 1897 [1898].

Other use: *Bryum pendulum* var. *alaskanum* (Kindberg) Podpera, 1973.

**B. albicans* (Wahlenberg) Röhling, 1813.

*illegitimate, type of earlier name included (Article 63.1).

B. albicans subsp. *sparsum* Hampe ex C. Müller in Kindberg, Eur. N. Amer. Bryin. 2: 389. 1897 [1898].

Other use: *Mniobryum wahlenbergii* subsp. *sparsum* (Hampe ex C. Müller in Kindberg) Wijk & Margadant, 1965.

**B. albidum* Brotherus in Herzog, Biblioth. Bot. 87: 84. 1916.

*illegitimate, later homonym (Article 64.1).

Earlier name: *Bryum albidum* (Hedwig) Palisot de Beauvois, 1805.

Correct name: *Bryum alboimbricatum* Ochi, 1980.

B. alboimbricatum Ochi, J. Fac. Educ. Tottori Univ., Nat. Sci. 29: 106. 1980.

Replaced name: *Bryum albidum* Brotherus in Herzog, 1916.

Blocking name: *Bryum albidum* (Hedwig) Palisot de Beauvois, 1805.

Other use: *Anomobryum alboimbricatum* (Ochi) T. Koponen & Norris, 1984.

B. alexandri Philibert, Rev. Bryol. 27: 57. 1900.

Other use: *Bryum pendulum* var. *alexandri* (Philibert) Podpera, 1973.

B. alexandri var. *majus* Philibert, Rev. Bryol. 27: 72. 1900, "*major*."

Other use: *Bryum pendulum* fo. *majus* (Philibert) Podpera, 1973.

Bryum, continued.

B. algovicum Sendtner in C. Müller, 1851.

B. algovicum var. *angustifolium* (Amann) Margadant, Lindbergia 1: 124. 1972.
Basionym: *Bryum moei* subsp. *angustifolium* Amann, 1893.

B. algovicum var. *arctobryoides* (Bryhn & Ryan) Margadant, Lindbergia 1: 124. 1972.
Basionym: *Bryum pendulum* var. *arctobryoides* Bryhn & Ryan, 1907.

B. algovicum var. *ardonense* (Breidler) Margadant, Lindbergia 1: 124. 1972.
Basionym: *Bryum ardonense* Breidler, 1889.

B. algovicum var. *ateles* (Amann) Margadant, Lindbergia 1: 124. 1972.
Basionym: *Bryum ateles* Amann, 1928.

B. algovicum var. *camurum* (I. Hagen) Margadant, Lindbergia 1: 124. 1972.
Basionym: *Bryum camurum* I. Hagen, 1908.

B. algovicum var. *ciliatum* (C. E. O. Jensen in P. J. Lund) Margadant, Lindbergia 1: 124. 1972.
Basionym: *Bryum pendulum* var. *ciliatum* C. E. O. Jensen in P. J. Lund, 1931.

B. algovicum var. *confluens* (E. Jørgensen) Margadant, Lindbergia 1: 124. 1972.
Basionym: *Bryum confluens* E. Jørgensen, 1894.

B. algovicum var. *fridtzii* (I. Hagen) Margadant, Lindbergia 1: 124. 1972.
Basionym: *Bryum fridtzii* I. Hagen, 1901.

B. algovicum var. *jamanense* (Amann) Margadant, Lindbergia 1: 124. 1972.
Basionym: *Bryum pendulum* subsp. *jamanense* Amann, 1918.

B. algovicum var. *moei* (W. P. Schimper) Margadant, Lindbergia 1: 124. 1972.
Basionym: *Bryum moei* W. P. Schimper, 1876.

B. algovicum var. *nevadense* (Cardot & Thériot) Margadant, Lindbergia 1: 124. 1972.
Basionym: *Bryum pendulum* var. *nevadense* Cardot & Thériot, 1904.

B. algovicum var. *parvulum* (Kindberg) Margadant, Lindbergia 1: 124. 1972.
Basionym: *Bryum pendulum* subsp. *parvulum* Kindberg, 1907.

B. algovicum var. *ruppinense* (Warnstorf) Margadant, Lindbergia 1: 124. 1972.
Basionym: *Bryum ruppinense* Warnstorf, 1894.

B. algovicum var. *rutheanum* (Warnstorf) Crundwell, Trans. Brit. Bryol. Soc. 6: 137. 1970.
Basionym: *Bryum pendulum* var. *rutheanum* Warnstorf, 1873.

B. algovicum var. *spadiceum* (Bridel) Margadant, Lindbergia 1: 125. 1972.
Basionym: *Ptychostomum compactum* var. *spadiceum* Bridel, 1827.

B. algovicum var. *striolatum* (Bryhn & Ryan) Margadant, Lindbergia 1: 125. 1972.
Basionym: *Bryum pendulum* var. *striolatum* Bryhn & Ryan, 1907.

B. algovicum var. *stygium* (Amann) Margadant, Lindbergia 1: 125. 1972.
Basionym: *Bryum stygium* Amann, 1928.

B. alpicola Brotherus, Symb. Sin. 4: 57. 1929.
Other use: *Bryum lisae* var. *alpicola* (Brotherus) Margadant, 1972.

B. alpiniforme Kindberg in Macoun, Cat. Canad. Pl., Musci 271. 1892.
Other use: *Bryum pseudotriquetrum* fo. *alpiniforme* (Kindberg in Macoun) Podpera, 1973.

Bryum, continued.

B. alvarense H. Arnell & Medelius, Bot. Not. 1921: 27. 1921.
Other use: *Bryum turbinatum* fo. *alvarense* (H. Arnell & Medelius) Podpera, 1973.

B. amblyphyllum Philibert, Rev. Bryol. 25: 63. 1898.
Other use: *Bryum calophyllum* subsp. *amblyphyllum* (Philibert) Podpera, 1973.

B. amoenum Brotherus, Acta Soc. Sci. Fenn. 24(2): 25. 1898.
Other use: *Bryum pallens* subsp. *amoenum* (Brotherus) Podpera, 1973.

B. angustidens Bryhn & Ryan, Rep. Second Norweg. Arctic Exped. "Fram" 1898-1902, Mosses 2(11): 87. 1907.
Other use: *Bryum inclinatum* var. *angustidens* (Bryhn & Ryan) Podpera, 1973.

B. angustirete Kindberg, Bull. Torrey Bot. Club 16: 94. 1889.
Replaced name: *Bryum pendulum* (Hornschuch) W. P. Schimper, 1856.
Blocking name: *Bryum pendulum* Oeder ex Bridel, 1803.
Other use: *Bryum pendulum* subsp. *angustirete* (Kindberg) Podpera, 1973.

B. angustirete fo. *inflatum* (Podpera in Boros) Savicz-Ljubitskaya, Novosti Sist. Niz. Rast. 1966: 331. 1966.
Basionym: *Bryum pendulum* fo. *inflatum* Podpera in Boros, 1931.

B. angustirete fo. *jailae* (Sapehin) Savicz-Ljubitskaya, Novosti Sist. Niz. Rast. 1966: 331. 1966.
Basionym: *Bryum jailae* Sapehin, 1911.

B. anomalum Ruthe ex Warnstorf, Beih. Bot. Centralbl. 16: 243. pl. 11: f. 4. 1904.
Other use: *Bryum stenotrichum* var. *anomalum* (Ruthe ex Warnstorf) Ochyra & Szmajda, 1978.

B. antisanense E. B. Bartram, Rev. Bryol. Lichénol. 33: 6. 1964 [1965].
Type: Ecuador. NW of N peak of Antisana, 4300 m, *Grubb 2561*. Holotype: BM.
Other use: *Mielichhoferia antisanensis* (E. B. Bartram) H. Robinson, 1967.

B. apiculatum Schwägrichen, Sp. Musc. Frond., Suppl. 1 2: 102. pl. 72. 1816.
Other use: *Pohlia apiculata* (Schwägrichen) H. Crum & L. E. Anderson, 1981.

B. archangelicum Bruch & W. P. Schimper in B.S.G., 1846.

B. archangelicum fo. *cylindricum* H. Winter, Hedwigia 49: 325. 1910.
Other use: *Bryum inclinatum* subfo. *cylindricum* (H. Winter) Podpera, 1973.

B. archangelicum subsp. *viridesporum* H. Winter, Hedwigia 49: 325. 1910.
Other use: *Bryum inclinatum* subfo. *viridisporum* (H. Winter) Podpera, 1973.

B. arcticum (R. Brown) Bruch & W. P. Schimper in B.S.G., 1846.

B. arcticum fo. *anelenctum* Podpera, Bryum Gen. Monogr. Prodr. 17: 279. 1973.
Type: Norway. N. Trondhjem, *Hassler s.n.* Holotype: "H.M." Paratypes cited.

**B. arcticum* fo. *apioeides* Podpera, Bryum Gen. Monogr. Prodr. 17: 275. 1973.
*invalid, single element not cited as holotype (Article 37.3).
Type: Several specimens cited but none indicated as type.

B. arcticum fo. *asynaptum* Podpera, Bryum Gen. Monogr. Prodr. 17: 279. 1973.
Type: Sweden. Jamtland, *Hassler s.n.* Holotype: "H.M." Paratype cited.

Bryum, continued.

B. arcticum var. *asyzygum* Podpera, Bryum Gen. Monogr. Prodr. 17: 296. 1973.
Type: Sweden. Jamtland, *Hassler s.n.* Holotype: "H.M."

B. arcticum fo. *aurimontanum* (Kindberg) Podpera, Bryum Gen. Monogr. Prodr. 17: 278. 1973.
Basionym: *Bryum aurimontanum* Kindberg, 1905.

B. arcticum fo. *brevicolle* Podpera, Bryum Gen. Monogr. Prodr. 17: 275. 1973.
Type: Greenland. Sarpiusak, *Berggren s.n.* Holotype: "H.M." Paratype cited.

B. arcticum var. *brevisetum* Podpera, Bryum Gen. Monogr. Prodr. 17: 295. 1973.
Type: Sweden. Jamtland, *Hassler s.n.* Holotype: "H.M."

B. arcticum subsp. *caperatum* Podpera, Bryum Gen. Monogr. Prodr. 17: 288. 1973.
Type: Norway. N. Trondhjem, Lierne, Koeskallen, *Hassler*, 1909. Holotype: "H.M."

B. arcticum subsp. *cycnocarpum* Podpera, Bryum Gen. Monogr. Prodr. 17: 297. 1973.
Type: Sweden. Jamtland, *Hassler*, 1910. Holotype: "H.M."

B. arcticum fo. *cydonium* Podpera, Bryum Gen. Monogr. Prodr. 17: 275. 1973.
Type: Sweden. Jamtland, *Hassler 73/10*. Herbarium not specified by author.

B. arcticum fo. *cygneum* Podpera, Bryum Gen. Monogr. Prodr. 17: 275. 1973.
Type: Norway. N. Trondhjem, *Hassler s.n.* Holotype: "H.M."

**B. arcticum* subsp. *cyphomorphum* Podpera, Bryum Gen. Monogr. Prodr. 17: 286. 1973.
*invalid, single element not cited as holotype (Article 37.3).
Type: Sweden. Jamtland, *Hassler*, 1910. Two collections, with slightly different dates, cited but neither indicated as holotype.

B. arcticum fo. *fundatum* Podpera, Bryum Gen. Monogr. Prodr. 17: 277. 1973.
Type: Norway. N. Trondhjem, *Hassler s.n.* Holotype: "H.M."

B. arcticum fo. *gibbum* Podpera, Bryum Gen. Monogr. Prodr. 17: 274. 1973.
Type: Sweden. Lapponia Tornensis, *Jäderholm*, 1916. Holotype: "H.P."

B. arcticum subsp. *globomorphum* Podpera, Bryum Gen. Monogr. Prodr. 17: 298. 1973.
Type: Norway. Nordli, *Hassler*, 1910. Holotype: "H.M."

B. arcticum subsp. *gyoerffianum* Podpera, Bryum Gen. Monogr. Prodr. 17: 289. 1973.
Type: Czechoslovakia. Slovakia: Belanske Tatry, Javorina, *Gyoerffy*, 1910. Holotype: "H.P."
Note: cited as invalid, no description (Article 41.3), in Index Muscorum.

B. arcticum subsp. *hjalmarii* Podpera, Bryum Gen. Monogr. Prodr. 17: 296. 1973.
Type: Norway. N. Trondhjem, *Hassler s.n.* Holotype: "H.M."

B. arcticum fo. *kungeanum* (Philibert) Podpera, Bryum Gen. Monogr. Prodr. 17: 274. 1973.
Basionym: *Bryum arcticum* var. *kungeanum* Philibert, 1899.

B. arcticum var. *kungeanum* Philibert, Rev. Bryol. 26: 62. 1899.
Other use: *Bryum arcticum* fo. *kungeanum* (Philibert) Podpera, 1973.

Bryum, continued.

B. arcticum fo. *latiannulatum* (Bryhn & Ryan) Podpera, Bryum Gen. Monogr. Prodr. 17: 278. 1973.

Basionym: *Bryum arcticum* var. *latiannulatum* Bryhn & Ryan, 1907.

B. arcticum var. *latiannulatum* Bryhn & Ryan, Rep. Second Norweg. Arctic Exped. "Fram" 1898-1902, Mosses 2(11): 112. 1907.

Other use: *Bryum arcticum* fo. *latiannulatum* (Bryhn & Ryan) Podpera, 1973.

B. arcticum subsp. *laxirete* (Bryhn & Ryan) Podpera, Bryum Gen. Monogr. Prodr. 17: 297. 1973.

Basionym: *Bryum laxirete* Bryhn & Ryan, 1907.

B. arcticum var. *liberum* (H. Winter) Podpera, Bryum Gen. Monogr. Prodr. 17: 290. 1973.

Basionym: *Bryum micans* var. *liberum* H. Winter, 1910.

**B. arcticum* subsp. *longirostratum* (H. Arnell) Podpera, Bryum Gen. Monogr. Prodr. 17: 284. 1973.

*invalid, a different name, *B. pendulum* subsp. *longirostratum*, with the same basionym, simultaneously published for this taxon (Article 34.2).

B. arcticum fo. *minutum* H. Arnell ex Podpera, Bryum Gen. Monogr. Prodr. 17: 274. 1973.

Type: U.S.S.R. Sibiria, Jenisej, Nikandrovskij ostrov, *Arnell s.n.* Holotype: "H.M."

B. arcticum fo. *pallidisetum* Podpera, Bryum Gen. Monogr. Prodr. 17: 277. 1973.

Type: Sweden. Smaland, *Zetterstedt*. Holotype: "H.L.D."

B. arcticum fo. *pseudopendulum* Podpera, Bryum Gen. Monogr. Prodr. 17: 275. 1973.

Type: Norway. S. Trondhjem, *Hagen s.n.* Holotype: "H.M.H."

B. arcticum subsp. *slovacum* Podpera, Bryum Gen. Monogr. Prodr. 17: 282. 1973.

Type: Czechoslovakia. Mont. Mala Fatra, *Smarda s.n.* Holotype: "H.P."

B. arcticum fo. *submicans* (Kindberg) Podpera, Bryum Gen. Monogr. Prodr. 17: 279. 1973.

Basionym: *Bryum submicans* Kindberg, 1905.

B. arcticum fo. *subsphaericum* Podpera, Bryum Gen. Monogr. Prodr. 17: 275. 1973.

Type: Sweden. Jamtland, *Hassler s.n.* Holotype: "H.M."

Note: homonym of equal priority with *B. arcticum* fo. *subsphaericum* (Bryhn & Ryan) Podpera.

B. arcticum fo. *subsphaericum* (Bryhn & Ryan) Podpera, Bryum Gen. Monogr. Prodr. 17: 286. 1973.

Basionym: *Bryum tomentosum* var. *subsphaericum* Bryhn & Ryan, 1907.

Note: homonym of equal priority with *B. arcticum* fo. *subsphaerium* Podpera.

B. ardonense Breidler, Oesterr. Bot. Z. 39: 135. 1889.

Other use: *Bryum algovicum* var. *ardonense* (Breidler) Margadant, 1972.

Bryum, continued.

B. argenteum Hedwig, 1801.

B. argenteum var. *griffithii* (C. Müller) Gangulee, Mosses E. India 4: 973. 1974.
Basionym: *Struckia griffithii* C. Müller, 1893.

B. argyroglyphodon Philibert, Rev. Bryol. 27: 51. 1900.
Other use: *Bryum pendulum* subsp. *argyroglyphodon* (Philibert) Podpera, 1973.

B. ateleostomum Philibert ex Cardot & Thériot, Proc. Wash. Acad. Sci. 4: 317. pl. 19: f. 1. 1902.
Other use: *Bryum inclinatum* subsp. *ateleostomum* (Philibert ex Cardot & Thériot) Podpera, 1973.

B. ateles Amann, Mém. Soc. Vaud. Sci. Nat. 3: 38. 1928.
Other use: *Bryum algovicum* var. *ateles* (Amann) Margadant, 1972.

B. atrovirens Bridel, 1803.

B. atrovirens var. *meylanii* (Podpera) Wijk & Margadant, Taxon 14: 196. 1965.
Basionym: *Bryum erythrocarpum* var. *meylanii* Podpera, 1954.

B. aurimontanum Kindberg, Rev. Bryol. 32: 34. 1905.
Other use: *Bryum arcticum* fo. *aurimontanum* (Kindberg) Podpera, 1973.

B. axel-blyttii Philibert, 1889.

B. axel-blyttii var. *acutiforme* (Limpricht in I. Hagen) Margadant, Lindbergia 1: 125. 1972.
Basionym: *Bryum acutiforme* Limpricht in I. Hagen, 1901.

B. axillare Philibert, Rev. Bryol. 25: 61. 1898.
Other use: *Bryum calophyllum* subsp. *axillare* (Philibert) Podpera, 1973.

B. badhwarii Ochi in Noguchi in H. Hara, Fl. E. Himalaya 1: 557. 1966.
Replaced name: *Bryum himalayanum* Dixon ex Ochi, 1964.
Blocking name: *Bryum himalayanum* (Mitten) C. Müller, 1900.

**B. barbuloides* Brotherus, Symb. Sin. 4: 58. 1929.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Bryum barbuloides* C. Müller, 1897.
Other use: *Pohlia barbuloides* Ochi, 1985.

B. biddlecomiae Austin, Bot. Gaz. (Crawfordsville) 2: 110. 1877.
Other use: *Bryum stenotrichum* var. *biddlecomiae* (Austin) E. Lawton, 1971, *Bryum warneum* var. *biddlecomiae* (Austin) Podpera, 1973.

B. billardieri Schwägrichen, 1816, "*billarderii*."

B. billardieri var. *platyloma* Mohamed, J. Bryol. 10: 412. f. 2: b, 3: b, 5. 1979.
Type: New Zealand. South Island: Cascade Creek, Eglinton, 1500 feet, *Child 2713*. Holotype: GL; isotypes: BM, JC.

B. bimum (Schreber) Turner, 1804.

B. bimum fo. *acutioperculatum* Podpera, Bryum Gen. Monogr. Prodr. 16: 152. 1973.
Type: Norway. Opdal, Olmberger, *Kaurin s.n.* Holotype: "H.L.D." Paratypes cited.

B. bimum fo. *angustifolium* (Kindberg in Macoun) Podpera, Bryum Gen. Monogr. Prodr. 16: 148. 1973.
Basionym: *Bryum bimum* var. *angustifolium* Kindberg in Macoun, 1892.

Bryum, continued.

B. bimum var. *angustifolium* Kindberg in Macoun, Cat. Canad. Pl., Musci 123. 1892.

Other use: *Bryum bimum* fo. *angustifolium* (Kindberg in Macoun) Podpera, 1973.

B. bimum fo. *apioeides* Podpera, Bryum Gen. Monogr. Prodr. 16: 153. 1973.

Type: Sweden. Kinnekulle, *Lindgren s.n.* Holotype: "H.P."

**B. bimum* fo. *aristulatum* Podpera, Bryum Gen. Monogr. Prodr. 16: 148. 1973.

*invalid, single element not cited as holotype (Article 37.3).

Type: Four collections, from various localities, cited, none indicated as holotype.

B. bimum subfo. *benae* (Podpera) Podpera, Bryum Gen. Monogr. Prodr. 16: 153. 1973.

Basionym: *Bryum bimum* var. *benae* Podpera, 1908.

B. bimum var. *benae* Podpera, Zprávy Kommis. Prir. Prozk. Moravi 5: 25. 1908.

Other use: *Bryum bimum* subfo. *benae* (Podpera) Podpera, 1973.

B. bimum var. *berggrenii* Podpera, Bryum Gen. Monogr. Prodr. 16: 162. 1973.

Type: Greenland. Claushavn, *Berggren*, 1870. Holotype: "H.V."

B. bimum fo. *brevicolle* Podpera, Bryum Gen. Monogr. Prodr. 16: 153. 1973.

Type: Germany. Bipontus, *Reinisch s.n.* Holotype: "H.V." Paratypes cited.

B. bimum fo. *brevisetum* (Warnstorf) Podpera, Bryum Gen. Monogr. Prodr. 16: 151. 1973.

Basionym: *Bryum bimum* var. *brevisetum* Warnstorf, 1899.

B. bimum var. *brevisetum* Warnstorf, Verh. Bot. Vereins Prov. Brandenburg 41: 60. 1899.

Other use: *Bryum bimum* fo. *brevisetum* (Warnstorf) Podpera, 1973.

B. bimum fo. *campanulatum* Podpera, Bryum Gen. Monogr. Prodr. 16: 159. 1973.

Type: Norway. Finmarkensamt, Kistrand, *Hagen s.n.* Holotype: "H.M.Holm."

**B. bimum* fo. *cavifolium* (Podpera) Podpera, Bryum Gen. Monogr. Prodr. 16: 150. 1973.

*invalid, a different name, *B. pseudotriquetrum* fo. *cavifolium*, with the same basionym, simultaneously published for this taxon (Article 34.3).

**B. bimum* fo. *compactum* Podpera, Bryum Gen. Monogr. Prodr. 16: 157. 1973.

*illegitimate, later homonym (Article 64.1).

Earlier name: *Bryum bimum* var. *compactum* (Bruch & W. P. Schimper) Dixon, 1896.

Replaced name: *Bryum ventricosum* fo. *compactum* Podpera, 1924.

Note: new name, based on adoption of earlier epithet (Article 72.Note 1).

B. bimum fo. *curvatum* Warnstorf, Krypt.-Fl. Brandenburg, Laubm. 2: 511. 1905, "*curvata*."

Other use: *Bryum bimum* subfo. *curvatum* (Warnstorf) Podpera, 1973.

B. bimum subfo. *curvatum* (Warnstorf) Podpera, Bryum Gen. Monogr. Prodr. 16: 156. 1973.

Basionym: *Bryum bimum* fo. *curvatum* Warnstorf, 1905.

Bryum, continued.

B. bimum var. *cuspidatum* Bruch & W. P. Schimper, Bryol. Eur. 4: 120 (fasc. 6-9. Monogr. 50). 1839.

Other use: *Bryum lisae* var. *cuspidatum* (Bruch & W. P. Schimper) Margadant, 1972.

B. bimum fo. *cylindricum* Podpera, Bryum Gen. Monogr. Prodr. 16: 156. 1973.

Type: Czechoslovakia. Praha, Srbsko, *Podpera* (Musci Eur. Exsicc. 342). Herbarium not specified by author. Paratype cited.

B. bimum fo. *euphyes* Podpera, Bryum Gen. Monogr. Prodr. 16: 159. 1973.

Type: Bulgaria. Dragolevsko blato, *Podpera s.n.* Holotype: "H.P."

B. bimum fo. *filamentosum* (Mikutowicz) Podpera, Bryum Gen. Monogr. Prodr. 16: 150. 1973.

Basionym: *Bryum pallens* var. *filamentosum* Mikutowicz, 1910.

B. bimum fo. *flagelliferum* Podpera, Bryum Gen. Monogr. Prodr. 16: 151. 1973.

Type: Germany. Borussia, Custrin, *Ruthe s.n.* Holotype: "H.V."

B. bimum fo. *haematostomum* Podpera, Bryum Gen. Monogr. Prodr. 16: 152. 1973.

Type: Sweden. Jamtland: Frostviken, *Hassler s.n.* Holotype: "H.M.Holm."

B. bimum fo. *heterophyllum* Podpera, Bryum Gen. Monogr. Prodr. 16: 159. 1973.

Type: Switzerland. Zurich, *Gams s.n.* Holotype: "H.Gs."

**B. bimum* subfo. *intermedium* Amann ex Podpera, Bryum Gen. Monogr. Prodr. 16: 159. 1973.

*invalid, single element not cited as holotype (Article 37.3).

Type: three collections cited, but none indicated as type.

B. bimum var. *janzenii* Limpricht ex Podpera, Bryum Gen. Monogr. Prodr. 16: 160. 1973.

Type: Norway. Ihlsviken, *Janzen 26.* Holotype: "H.L.D." Paratype cited.

B. bimum fo. *leucolomatum* (C. Müller & Kindberg in Macoun) Podpera, Bryum Gen. Monogr. Prodr. 16: 156. 1973.

Basionym: *Bryum leucolomatum* C. Müller & Kindberg in Macoun, 1892.

B. bimum fo. *lingulatum* Podpera, Bryum Gen. Monogr. Prodr. 16: 148. 1973.

Type: Hungary. Budapest, *Boros s.n.* Holotype: "H.P."

B. bimum var. *lonchocaulon* (C. Müller) Podpera, Bryum Gen. Monogr. Prodr. 16: 162. 1973.

Basionym: *Bryum lonchocaulon* C. Müller, 1875.

B. bimum fo. *longicollum* (Warnstorf) Podpera, Bryum Gen. Monogr. Prodr. 16: 155. 1973.

Basionym: *Bryum bimum* var. *longicollum* Warnstorf, 1885.

B. bimum var. *longicollum* Warnstorf, Verh. Bot. Vereins Prov. Brandenburg 27: 52. 1885.

Other use: *Bryum bimum* fo. *longicollum* (Warnstorf) Podpera, 1973.

B. bimum fo. *longisetum* Podpera, Bryum Gen. Monogr. Prodr. 16: 151. 1973.

Type: Germany. Mecklenburg, Strelitz, *Ruthe s.n.* Holotype: "H.E.Bauer."

Bryum, continued.

B. bimum fo. *macrocarpum* (Warnstorf) Podpera, Bryum Gen. Monogr. Prodr. 16: 155. 1973.
Basionym: *Bryum bimum* var. *macrocarpum* Warnstorf, 1905.

B. bimum var. *macrocarpum* Warnstorf, Krypt.-Fl. Brandenburg, Laubm. 2: 511. 1905.
Other use: *Bryum bimum* fo. *macrocarpum* (Warnstorf) Podpera, 1973.

B. bimum fo. *microcarpum* (Warnstorf) Podpera, Bryum Gen. Monogr. Prodr. 16: 158. 1973.
Basionym: *Bryum bimum* var. *microcarpum* Warnstorf, 1905.

B. bimum var. *microcarpum* Warnstorf, Krypt.-Fl. Brandenburg, Laubm. 2: 511. 1905.
Other use: *Bryum bimum* fo. *microcarpum* (Warnstorf) Podpera, 1973.

B. bimum fo. *microteron* Podpera, Bryum Gen. Monogr. Prodr. 16: 158. 1973.
Type: Germany. Westphalia, Sauerland, Nuttlar, *Moenkemeyer s.n.* Holotype: "H.P." Paratypes cited.

B. bimum subfo. *obtusioperculatum* (Warnstorf) Podpera, Bryum Gen. Monogr. Prodr. 16: 155. 1973.
Basionym: *Bryum bimum* var. *obtusioperculatum* Warnstorf, 1885.

B. bimum var. *obtusioperculatum* Warnstorf, Verh. Bot. Vereins Prov. Brandenburg 27: 52. f. 53. 1885.
Other use: *Bryum bimum* subfo. *obtusioperculatum* (Warnstorf) Podpera, 1973.

B. bimum fo. *orthocarpum* Warnstorf, Krypt.-Fl. Brandenburg, Laubm. 2: 511. 1905.
Other use: *Bryum bimum* subfo. *orthocarpum* (Warnstorf) Podpera, 1973.

B. bimum subfo. *orthocarpum* (Warnstorf) Podpera, Bryum Gen. Monogr. Prodr. 16: 156. 1973.
Basionym: *Bryum bimum* fo. *orthocarpum* Warnstorf, 1905.

B. bimum fo. *oviforme* Podpera, Bryum Gen. Monogr. Prodr. 16: 153. 1973.
Type: Czechoslovakia. Bratislava, Plavecky Stvrtok, *Boros s.n.* Holotype: "H.P." Paratypes cited.

B. bimum var. *parasysphinctum* (Amann) Podpera, Bryum Gen. Monogr. Prodr. 16: 161. 1973.
Basionym: *Bryum parasysphinctum* Amann, 1928.

B. bimum fo. *piriforme* Podpera, Bryum Gen. Monogr. Prodr. 16: 156. 1973.
Type: Germany. Oberbaden, Salem, *Jack s.n.* Holotype: "H.M." Paratypes cited.

B. bimum fo. *pontresinae* Podpera, Bryum Gen. Monogr. Prodr. 16: 153. 1973.
Type: Switzerland. Pontresina, *Degen*, 1909. Holotype: "H.L.D."

B. bimum fo. *robustum* Podpera, Bryum Gen. Monogr. Prodr. 16: 157. 1973.
Type: Yugoslavia. Serbia: Surdulica, *Podpera s.n.* Holotype: "H.P."

B. bimum fo. *rupestre* (Podpera) Podpera, Bryum Gen. Monogr. Prodr. 16: 152. 1973.
Basionym: *Bryum bimum* subsp. *rupestre* Podpera, 1901.

Bryum, continued.

B. bimum subsp. *rupestre* Podpera, Rozpr. Ceské Akad. Ved, Tr. 2, Vedy Mat. Prír. 10(2): 33. 1901.

Other use: *Bryum bimum* fo. *rupestre* (Podpera) Podpera, 1973.

B. bimum var. *scandicum* Podpera, Bryum Gen. Monogr. Prodr. 16: 160. 1973.

Type: Sweden. Skane, Brunnby, *Stenholm*, 1936. Herbarium not specified by author.

B. bimum fo. *serratulum* Podpera, Bryum Gen. Monogr. Prodr. 16: 148. 1973.

Type: Sweden. Vastergotland, *Arnell s.n.* Holotype: "H.P."

B. bimum fo. *subnivale* (Molendo) Podpera, Bryum Gen. Monogr. Prodr. 16: 158. 1973.

Basionym: *Bryum bimum* var. *subnivale* Molendo, 1865.

B. bimum var. *subnivale* Molendo, Ber. Naturhist. Vereins Augsburg 18: 154. 1865.

Other use: *Bryum bimum* fo. *subnivale* (Molendo) Podpera, 1973.

B. bimum fo. *tenuidens* Podpera, Bryum Gen. Monogr. Prodr. 16: 152. 1973.

Type: Sweden. Jamtland, *Hassler s.n.* Holotype: "H.M."

B. bimum fo. *upplandicum* Podpera, Bryum Gen. Monogr. Prodr. 16: 159. 1973.

Type: Sweden. Uppland, Bergshamra, *Halle s.n.* Holotype: "H.M.Holm."

B. bimum fo. *violaceum* Podpera, Bryum Gen. Monogr. Prodr. 16: 148. 1973.

Type: Sweden. Lapponia Torn, *Jäderholm s.n.* Holotype: "H.M."

B. blandum J. D. Hooker & Wilson, 1844.

B. blandum subsp. *handelii* (Brotherus) Ochi, J. Jap. Bot. 43: 484. 1968.

Basionym: *Bryum handelii* Brotherus, 1929.

B. blindii Bruch & W. P. Schimper in B.S.G., 1846.

B. blindii fo. *gracilis* Tosco, Webbia 28: 293. 1973.

Type: Italy. Gran Paradiso, Parco Nazionale, Alte Vall, dell'Orco, tra ivalloni di Noaschetta e di Piantonetto, morene del ghiacciaio del Carro Orientale, "sine coll.," 1971. Holotype: herb. Tosco.

B. brachylepis Kindberg, Rev. Bryol. 34: 29. 1907.

Other use: *Bryum pendulum* subsp. *brachylepis* (Kindberg) Podpera, 1973.

B. brachymenioides (Dixon & Potier de la Varde) Ochi, J. Hattori Bot. Lab. 35: 66. 1972.

Basionym: *Anomobryum brachymenioides* Dixon & Potier de la Varde, 1930.

B. brachyneuron Kindberg, Ottawa Naturalist 5: 179. 1892.

Other use: *Bryum inclinatum* subsp. *brachyneuron* (Kindberg) Podpera, 1973.

B. brachythecium Bryhn & Ryan, Rep. Second Norweg. Arctic Exped. "Fram" 1898-1902, Mosses 2(11): 81. 1907.

Other use: *Bryum inclinatum* var. *brachythecium* (Bryhn & Ryan) Podpera, 1973.

B. brevifolium Dickson ex Withering, Syst. Arr. Brit. Pl. (ed. 4) 3: 814. 1801.

Other use: *Didymodon fallax* var. *brevifolius* (Dickson ex Withering) Ochyra, 1982 [1984].

Bryum, continued.

**B. brownii* Bruch & W. P. Schimper in B.S.G., 1846.
*illegitimate, type of earlier name included (Article 63.1).

B. brownii fo. *minus* Kaurin ex Podpera, Bryum Gen. Monogr. Prodr. 17: 383. 1973.
Type: Norway. Dovre prope Jerkind, *Kaurin*, 1885. Herbarium not specified by author.

B. brownii fo. *rubrifolium* Podpera, Bryum Gen. Monogr. Prodr. 17: 383. 1973.
Type: Norway. Dovre prope Jerkind, *Kaurin*, 1885. Herbarium not specified by author.

B. brownii subsp. *terskeanum* (Philibert) Podpera, Bryum Gen. Monogr. Prodr. 17: 384. 1973.
Basionym: *Bryum brownii* var. *terskeanum* Philibert, 1899.

B. brownii var. *terskeanum* Philibert, Rev. Bryol. 26: 79. 1899.
Other use: *Bryum brownii* subsp. *terskeanum* (Philibert) Podpera, 1973, *Bryum bryoides* var. *terskeanum* (Philibert) Savicz-Ljubitskaya, 1966.

B. bryoides (R. Brown) Wijk & Margadant, 1959.

B. bryoides var. *terskeanum* (Philibert) Savicz-Ljubitskaya, Novosti Sist. Niz. Rast. 1966: 331. 1966.
Basionym: *Bryum brownii* var. *terskeanum* Philibert, 1899.

**B. cadetii* Bizot & Onraedt in Bizot, Rev. Bryol. Lichénol. 40: 123. pl. 13. 1974.
*invalid, single element not cited as holotype (Article 37.3).
Type: Reunion. Plaine des Salazes, *Cadet 205*. Herbaria: "herbiers Cadet et Bizot."

B. caespiticium Hedwig, 1801, "*caespiticum*."

B. caespiticium var. *cirrhatum* Hübener, Muscol. Germ. 444. 1833.
Other use: *Bryum lisae* subsp. *cirrhatum* (Hübener) Margadant, 1972.

B. caespiticium subsp. *kolenatii* Podpera, Práce Brnenské Zákl. Ceskolov. Akad. Ved 29: 165. 1957.
Other use: *Bryum caespiticium* var. *kolenatii* (Podpera) Savicz-Ljubitskaya, 1966.

B. caespiticium var. *kolenatii* (Podpera) Savicz-Ljubitskaya, Novosti Sist. Niz. Rast. 1966: 331. 1966.
Basionym: *Bryum caespiticium* subsp. *kolenatii* Podpera, 1957.

B. calcicola H. Arnell, Rev. Bryol. 25: 5. 1898.
Other use: *Bryum lisae* subsp. *calcicola* (H. Arnell) Margadant, 1972.

B. callicarpum Amann, Fl. Mouss. Suisse 1: 124. 1918.
Other use: *Bryum pallens* fo. *callicarpum* (Amann) Podpera, 1973.

B. calobolax C. Müller, Bot. Centralbl. 16: 94. 1883.
Other use: *Bryum pendulum* subsp. *calobolax* (C. Müller) Podpera, 1973.

B. calobryoides Spence, Bryologist 89: 215. f. 1-8. 1986 [1987].
Type: Canada. British Columbia: Garibaldi Provincial Park, between Little Diamond Head and Columnar Peak, 1680 m, *Spence & Schofield 2342*. Holotype: UBC. Other indicated distribution: Canada (Alberta), U.S.A. (California, Colorado, Idaho, Montana, Washington).

Bryum, continued.

B. calophyllum R. Brown, 1823.

B. calophyllum subsp. *amblyphyllum* (Philibert) Podpera, Bryum Gen. Monogr. Prodr. 17: 249. 1973.

Basionym: *Bryum amblyphyllum* Philibert, 1898.

B. calophyllum subsp. *axillare* (Philibert) Podpera, Bryum Gen. Monogr. Prodr. 17: 249. 1973.

Basionym: *Bryum axillare* Philibert, 1898.

B. calophyllum fo. *compactum* C. Müller ex Podpera, Bryum Gen. Monogr. Prodr. 17: 246. 1973.

Type: Greenland, *"C. et P."* [Copeland & Pansch]. Herbarium not specified by author.

B. calophyllum subsp. *congestiflorum* (Philibert) Podpera, Bryum Gen. Monogr. Prodr. 17: 248. 1973.

Basionym: *Bryum congestiflorum* Philibert, 1898.

B. calophyllum fo. *fontanum* (Brotherus in Brotherus & Bryhn in Hedin) Podpera, Bryum Gen. Monogr. Prodr. 17: 246. 1973.

Basionym: *Bryum calophyllum* var. *fontanum* Brotherus in Brotherus & Bryhn in Hedin, 1922.

B. calophyllum var. *fontanum* Brotherus in Brotherus & Bryhn in Hedin, S. Tibet 6(3): 103. 1922.

Other use: *Bryum calophyllum* fo. *fontanum* (Brotherus in Brotherus & Bryhn in Hedin) Podpera, 1973.

B. calophyllum subsp. *microcalophyllum* (Philibert) Podpera, Bryum Gen. Monogr. Prodr. 17: 247. 1973.

Basionym: *Bryum microcalophyllum* Philibert, 1899.

B. calophyllum fo. *procerum* (Lindberg & H. Arnell) Podpera, Bryum Gen. Monogr. Prodr. 17: 246. 1973.

Basionym: *Bryum calophyllum* subsp. *procerum* Lindberg & H. Arnell, 1890.

B. calophyllum subsp. *procerum* Lindberg & H. Arnell, Kongl. Svenska Vetensk. Acad. Handl. 23(10): 46. 1890.

Other use: *Bryum calophyllum* fo. *procerum* (Lindberg & H. Arnell) Podpera, 1973.

B. calophyllum fo. *scoticum* (Amann) Podpera, Bryum Gen. Monogr. Prodr. 17: 247. 1973.

Basionym: *Bryum calophyllum* subsp. *scoticum* Amann, 1892.

B. calophyllum subsp. *scoticum* Amann, Rev. Bryol. 19: 15. 1892.

Other use: *Bryum calophyllum* fo. *scoticum* (Amann) Podpera, 1973.

B. calophyllum subsp. *timmiostomoides* (Philibert) Podpera, Bryum Gen. Monogr. Prodr. 17: 250. 1973.

Basionym: *Bryum timmiostomoides* Philibert, 1898.

B. calophyllum subsp. *submucronatum* (Philibert) Podpera, Bryum Gen. Monogr. Prodr. 17: 248. 1973.

Basionym: *Bryum submucronatum* Philibert, 1899.

Bryum, continued.

B. camptocarpum Cardot & Thériot, Bot. Gaz. (Crawfordsville) 37: 374. pl. 22: f. 1. 1904.

Other use: *Bryum pallens* subsp. *camptocarpum* (Cardot & Thériot) Podpera, 1973.

B. camptoneurum Cardot & Thériot in Dupret, Contr. Lab. Bot. Univ. Montréal 26. f. 4. 1934.

Other use: *Bryum pendulum* subsp. *camptoneurum* (Cardot & Thériot in Dupret) Podpera, 1973.

Note: treated as invalid and spelled *"camptoneuron"* in Index Muscorum.

B. campylocarpum Limpricht, Bot. Centralbl. 16: 285. 1883.

Other use: *Bryum cernuum* subsp. *campylocarpum* (Limpricht) Podpera, 1973.

B. campylocarpum var. *arcticum* Bryhn & Ryan, Rep. Second Norweg. Arctic Exped. "Fram" 1898-1902, Mosses 2(11): 96. 1907.

Other use: *Bryum cernuum* var. *arcticum* (Bryhn & Ryan) Podpera, 1973.

B. camurum I. Hagen, Kongel. Norske Vidensk. Selsk. Skr. (Trondheim) 1908(3): 16. pl. 1: f. 2. 1908.

Other use: *Bryum algovicum* var. *camurum* (I. Hagen) Margadant, 1972.

B. cancelliforme Bryhn & Ryan, Rep. Second Norweg. Arctic Exped. "Fram" 1898-1902, Mosses 2(11): 89. 1907.

Other use: *Bryum inclinatum* var. *cancelliforme* (Bryhn & Ryan) Podpera, 1973.

B. capillare Hedwig, 1801.

B. capillare subsp. *erythroloma* Kindberg, Eur. N. Amer. Bryin. 2: 358. 1897 [1898].

Other use: *Bryum erythroloma* (Kindberg) Syed, 1973.

**B. capillare* var. *fallax* Loeske & Paul in E. Bauer, Musci Eur. Exsic. 7: 350. 1909.

*illegitimate, later homonym (Article 64.1).

Earlier name: *Bryum capillare* var. *fallax* J. M. Lange, 1861.

Other use: *Bryum pallens* fo. *nematophorum* Podpera, 1973.

B. capillare var. *laxifolium* (Cardot) Iwatsuki & Noguchi, J. Jap. Bot. 48: 215. 1973.

Basionym: *Bryum nagasakense* var. *laxifolium* Cardot, 1909.

B. capillare subsp. *rufifolium* Dixon, Stud. Handb. Brit. Mosses (ed. 3) 368. 1924.

Replaced name: *Bryum rubicundum* Stirton, 1914.

Blocking name: *Bryum rubicundum* C. Müller, 1859.

Other use: *Bryum rufifolium* (Dixon) Demaret & R. Wilczek in R. Wilczek & Demaret, 1982.

B. catervarium I. Hagen, Meddel. Grønland 26: 246. f. 12. 1904.

Other use: *Bryum pallens* subsp. *catervarium* (I. Hagen) Podpera, 1973.

Bryum, continued.

B. cellulare W. J. Hooker in Schwägrichen, 1827.

B. cellulare var. *lipopae* (Thériot & Potier de la Varde) Podpera, Bryum Gen. Monogr. Prodr. 17: 237. 1973.

Basionym: *Bryum splachnoides* subsp. *lipopae* Thériot & Potier de la Varde, 1932.

B. cellulare fo. *mucronatum* (Potier de la Varde) Podpera, Bryum Gen. Monogr. Prodr. 17: 237. 1973.

Basionym: *Bryum splachnoides* var. *mucronatum* Potier de la Varde, 1934.

B. cellulare var. *obtusifolium* (Fleischer) Podpera, Bryum Gen. Monogr. Prodr. 17: 237. 1973.

Basionym: *Bryum compressidens* var. *obtusifolium* Fleischer, 1904.

**B. cernuum* (Hedwig) Bruch & W. P. Schimper, 1839.

*illegitimate, later homonym (Article 64.1).

Earlier name: *Bryum cernuum* Bridel, 1827.

B. cernuum var. *arcticum* (Bryhn & Ryan) Podpera, Bryum Gen. Monogr. Prodr. 17: 209. 1973.

Basionym: *Bryum campylocarpum* var. *arcticum* Bryhn & Ryan, 1907.

B. cernuum fo. *brevisetum* (Warnstorf) Podpera, Bryum Gen. Monogr. Prodr. 17: 206. 1973.

Basionym: *Bryum uliginosum* fo. *brevisetum* Warnstorf, 1905.

B. cernuum subsp. *campylocarpum* (Limpricht) Podpera, Bryum Gen. Monogr. Prodr. 17: 209. 1973.

Basionym: *Bryum campylocarpum* Limpricht, 1883.

**B. cernuum* subsp. *ciliatum* Podpera, Bryum Gen. Monogr. Prodr. 17: 209. 1973.

*invalid, single element not cited as holotype (Article 37.3).

Type: Two collections, without localities, discussed, but neither indicated as holotype.

B. cernuum subsp. *danubiale* Podpera, Bryum Gen. Monogr. Prodr. 17: 211. 1973.

Type: Hungary. Komarom, *Boros 815*. Holotype: "H.P."

**B. cernuum* fo. *golenzianum* (Torka) Podpera, Bryum Gen. Monogr. Prodr. 17: 207. 1973.

*invalid, basionym not cited (Article 33.2).

B. cernuum var. *hammerschmidii* Podpera, Bryum Gen. Monogr. Prodr. 17: 208. 1973.

Type: Germany. Bavaria: Kirchstein, *Hammerschmid s.n.* Holotype: "H.P."

B. cernuum fo. *hemisynapsium* (Quelle in Röll) Podpera, Bryum Gen. Monogr. Prodr. 17: 208. 1973, "*hemisynapsioides*."

Basionym: *Bryum uliginosum* var. *hemisynapsium* Quelle in Röll, 1915.

**B. cernuum* var. *longicollum* (Torka) Podpera, Bryum Gen. Monogr. Prodr. 17: 207. 1973.

*invalid, basionym not cited (Article 33.2).

Bryum, continued.

**B. cernuum* var. *pendulum* (Torka) Podpera, Bryum Gen. Monogr. Prodr. 17: 206. 1973.
**invalid, basionym not cited (Article 33.2).

B. cernuum fo. *regulare* (Warnstorf) Podpera, Bryum Gen. Monogr. Prodr. 17: 206. 1973.
Basionym: *Bryum uliginosum* var. *regulare* Warnstorf, 1896 [1897].

**B. cernuum* fo. *speciosum* (Torka) Podpera, Bryum Gen. Monogr. Prodr. 17: 207. 1973.
**invalid, basionym not cited (Article 33.2).

**B. cernuum* var. *subarcticum* Podpera, Bryum Gen. Monogr. Prodr. 17: 208. 1973.
**invalid, single element not cited as holotype (Article 37.3).
Type: Sweden. Lapponia Tornensis, *Jäderholm*, 2 collections cited. Herbarium: "H.P."

**B. cernuum* var. *symmetricale* (Torka) Podpera, Bryum Gen. Monogr. Prodr. 17: 207. 1973.
**invalid, basionym not cited (Article 33.2).

B. chrysophyllum Ochi, Hikobia 6: 220. 1973.
Replaced name: *Bryum laxifolium* Bescherelle, 1873.
Blocking name: *Bryum laxifolium* Lindberg, 1867.

**B. cirrhatum* Hoppe & Hornschuch, 1819.
**illegitimate, later homonym (Article 64.1).
Earlier name: *Bryum cirratum* (Hedwig) Withering, 1801.

B. cirrhatum fo. *aulacodon* Podpera, Práce Brnenské Zákl. Ceskolov. Akad. Ved 31: 289. 1959.
Other use: *Bryum creberrimum* fo. *aulacodon* (Podpera) Savicz-Ljubitskaya, 1966.

B. cirrhatum var. *australe* Cardot, Bull. Herb. Boissier, sér. 2, 5: 1007. 1905.
Other use: *Bryum lisae* var. *australe* (Cardot) Margadant, 1972.

B. cirrhatum subsp. *cinnamomeum* Podpera in Herzog, Oesterr. Bot. Z. 93: 48. 1944.
Other use: *Bryum lisae* var. *cinnamomeum* (Podpera in Herzog) Margadant, 1972.

B. cirrhatum subsp. *flexisetum* Podpera, Consp. Musc. Eur. 379. 1954.
Replaced name: *Bryum flexisetum* Lindberg & H. Arnell, 1890.
Blocking name: *Bryum flexisetum* Mitten, 1869.
Other use: *Bryum lisae* var. *flexisetum* (Podpera) Margadant, 1972.
Note: new name, based on adoption of earlier epithet (Article 72.Note 1).

B. cirrhatum fo. *longicervix* Podpera, Práce Brnenské Zákl. Ceskolov. Akad. Ved 31: 288. 1959.
Other use: *Bryum creberrimum* fo. *longicervix* (Podpera) Savicz-Ljubitskaya, 1966.

B. cirrhatum var. *microcarpum* Warnstorf, Krypt.-Fl. Brandenburg, Laubm. 2: 515. 1905.
Other use: *Bryum lisae* var. *microcarpum* (Warnstorf) Margadant, 1972.

Bryum, continued.

B. cirrhatum subsp. *noricum* Podpera in Herzog, Oesterr. Bot. Z. 93: 48. 1944.
Other use: *Bryum lisae* var. *noricum* (Podpera in Herzog) Margadant, 1972.

B. cirrhatum subsp. *pallidum* Amann, Fl. Mouss. Suisse 2: 394. 1918.
Replaced name: *Bryum pallidum* Warnstorf, 1904.
Blocking name: *Bryum pallidum* (Hedwig) Schreber ex Withering, 1801.
Other use: *Bryum lisae* var. *pallidum* (Amann) Margadant, 1972.
Note: new name, based on adoption of earlier epithet (Article 72.Note 1).

B. cirrhatum fo. *pammegasporum* Podpera, Práce Brnenské Zákl. Ceskolov. Akad. Ved 31: 289. 1959.
Other use: *Bryum creberrimum* fo. *pammegasporum* (Podpera) Savicz-Ljubitskaya, 1966.

B. cirrhatum var. *tauriscorum* Kern, Jahresber. Schles. Ges. Vaterl. Cult., Abt. 2, 85: 6. 1908.
Other use: *Bryum lisae* var. *tauriscorum* (Kern) Margadant, 1972.

B. compressidens C. Müller, 1848.

B. compressidens var. *obtusifolium* Fleischer, Musci Buitenzorg 2: 530. 1904.
Other use: *Bryum cellulare* var. *obtusifolium* (Fleischer) Podpera, 1973.

B. conditum R. S. Williams, Bull. New York Bot. Gard. 2: 125. f. 18. 1901.
Other use: *Bryum pallens* subsp. *conditum* (R. S. Williams) Podpera, 1973.

B. confluens E. Jørgensen, Forh. Vidensk.-Selsk. Christiania 1894(8): 161. 1894.
Other use: *Bryum algovicum* var. *confluens* (E. Jørgensen) Margadant, 1972.

B. congestiflorum Philibert, Rev. Bryol. 25: 66. 1898.
Other use: *Bryum calophyllum* subsp. *congestiflorum* (Philibert) Podpera, 1973.

B. conspicuum Podpera, Rozpr. Ceské Akad. Ved, Tr. 2, Vedy Mat. Prír. 10(2): 57. pl. 23: f. 1-4. 1901.
Other use: *Bryum turbinatum* fo. *conspicuum* (Podpera) Podpera, 1973.

B. contractum Bomansson, Rev. Bryol. 26: 9. 1899.
Other use: *Bryum inclinatum* fo. *contractum* (Bomansson) Podpera, 1973.

**B. convolutifolium* Dixon ex Sappa, Lav. Bot. 10: 9. f. 2. 1950.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Bryum convolutifolium* Dixon in Herzog, 1935.
Original placement: sect. *Alpiniformia*.
Note: not in Index Muscorum.

B. corioideum Bryhn & Ryan, Rep. Second Norweg. Arctic Exped. "Fram" 1898-1902, Mosses 2(11): 84. 1907.
Other use: *Bryum inclinatum* var. *corioideum* (Bryhn & Ryan) Podpera, 1973.

**B. crassicostatum* Brotherus, Bernice P. Bishop Mus. Bull. 40: 15. 1927.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Bryum crassicostatum* C. Müller, 1898.
Correct name: *Bryum hawaiicum* Hoe, 1974.

Bryum, continued.

B. crassinervum (Herzog) A. J. Shaw, Mem. New York Bot. Gard. 45: 684. 1987.
Basionym: *Haplodontium crassinervum* Herzog, 1916.

B. crassirameum Renauld & Cardot, Bot. Gaz. (Crawfordsville) 15: 57. pl. 8: b. 1890.
Other use: *Bryum pseudotriquetrum* subsp. *crassirameum* (Renauld & Cardot) Podpera, 1973, *Bryum pseudotriquetrum* var. *crassirameum* (Renauld & Cardot) E. Lawton, 1971.

B. crassirameum var. *covillei* Renauld & Cardot, Bot. Gaz. (Crawfordsville) 30: 21. 1900.
Other use: *Bryum pseudotriquetrum* fo. *covillei* (Renauld & Cardot) Podpera, 1973.

B. creberrimum Taylor, 1846.

B. creberrimum fo. *aulacodon* (Podpera) Savicz-Ljubitskaya, Novosti Sist. Niz. Rast. 1966: 331. 1966.
Basionym: *Bryum cirrhatum* fo. *aulacodon* Podpera, 1959.

B. creberrimum fo. *longicervix* (Podpera) Savicz-Ljubitskaya, Novosti Sist. Niz. Rast. 1966: 331. 1966, "*longicervis*."
Basionym: *Bryum cirrhatum* fo. *longicervix* Podpera, 1959.

B. creberrimum fo. *pammegasporum* (Podpera) Savicz-Ljubitskaya, Novosti Sist. Niz. Rast. 1966: 331. 1966.
Basionym: *Bryum cirrhatum* fo. *pammegasporum* Podpera, 1959.

B. cremocarpum Lazarenko, Dopov. Akad. Nauk Ukrajins'k. RSR 11: 1040. f. 7-9. 1970.
Type: U.S.S.R. Montis Pamir orientalis, in valle Okubaytal, 4800 m, *Mamatkulov 2427*. Herbarium not specified by author.

**B. crispulum* Hampe in I. Hagen, 1901.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Bryum crispulum* (Hedwig) Palisot de Beauvois, 1805.

B. crispulum var. *densifolium* Bryhn & Ryan, Rep. Second Norweg. Arctic Exped. "Fram" 1898-1902, Mosses 2(11): 111. 1907.
Other use: *Bryum pseudotriquetrum* fo. *densifolium* (Bryhn & Ryan) Podpera, 1973.

B. crispulum fo. *propaguliferum* H. Arnell & C. E. O. Jensen, Naturwiss. Untersuch. Sarekgebirges Schwed.-Lappl., Bot. 3(2-3): 149. 1910.
Other use: *Bryum pseudotriquetrum* fo. *propaguliferum* (H. Arnell & C. E. O. Jensen) Podpera, 1973.

B. cryophilum Mårtensson, 1956.

B. cryophilum subsp. *erythrophylloides* (Kindberg in Macoun) Pilous in Podpera, Bryum Gen. Monogr. Prodr. 16: 19. 1973.
Basionym: *Bryum erythrophylloides* Kindberg in Macoun, 1892.

B. cryophilum subsp. *erythrophyllum* (Kindberg in Macoun) Pilous in Podpera, Bryum Gen. Monogr. Prodr. 16: 18. 1973.
Basionym: *Bryum erythrophyllum* Kindberg in Macoun, 1892.

Bryum, continued.

B. cryophilum subsp. *lowii* (Kindberg) Podpera, Bryum Gen. Monogr. Prodr. 16: 19. 1973.
Basionym: *Bryum lowii* Kindberg, 1907.

B. cryophilum subsp. *pygmaeoalpinum* (C. Müller & Kindberg in Macoun) Podpera, Bryum Gen. Monogr. Prodr. 16: 19. 1973.
Basionym: *Bryum pygmaeoalpinum* C. Müller & Kindberg in Macoun, 1892.

B. cryophilum subsp. *subobtusifolium* (C. Müller) Pilous in Podpera, Bryum Gen. Monogr. Prodr. 16: 18. 1973.
Basionym: *Bryum subobtusifolium* C. Müller, 1883.
Note: valid, error of bibliographic citation of basionym (Article 33.2), "*B. subobtusifolium* Lindberg & Arnell, 1890."

B. curranii (Brotherus) Ochi, Hikobia 5: 32. 1967 [1968].
Basionym: *Rhodobryum curranii* Brotherus, 1910.

B. cyclophylloides Kindberg, Rev. Bryol. 32: 37. 1905.
Other use: *Bryum tortifolium* subsp. *cyclophylloides* (Kindberg) Pilous in Podpera, 1973.

**B. cyclophylloides* Bryhn & Ryan, Rep. Second Norweg. Arctic Exped. "Fram" 1898-1902, Mosses 2(11): 108. 1907.
*illegitimate, later homonym (Article 64.1).
Earlier name: *B. cyclophylloides* Kindberg, 1905.
Other use: *Bryum tortifolium* subsp. *associatum* Podpera ex Pilous in Podpera, 1973.

B. cyclophyllum (Schwägrichen) Bruch & W. P. Schimper, 1839.

B. cyclophyllum var. *remyi* Gardet, Bull. Soc. Bot. France 75: 261. f. 2. 1928.
Other use: *Bryum tortifolium* var. *remyi* (Gardet) Pilous in Podpera, 1973.

B. dendroides Bridel, Muscol. Recent. 2(3): 20. 1803.
Other use: *Hypnodendron dendroides* (Bridel) Touw, 1971.

B. dentatum Ochi, J. Fac. Educ. Tottori Univ., Nat. Sci. 27: 36. f. 3. 1977.
Type: Mexico. Tamaulipas: trail to Indian Springs, Rancho del Cielo above Gomez Farias, 1100-1200 m, *Iwtasuki & Sharp 4882*. Holotype: TENN; isotypes: NICH, herb. Ochi.
Original placement: subgen. *Rhodobryum*.

B. denticulatinervium Ochi, J. Fac. Educ. Tottori Univ., Nat. Sci. 27: 34. f. 2. 1977.
Type: Argentina. Banfield, *Kuhnemann 2995*. Holotype: BA; isotype: herb. Ochi.

B. denticulatum Kindberg, Bull. Torrey Bot. Club 17: 273. 1890.
Other use: *Bryum pseudotriquetrum* fo. *denticulatum* (Kindberg) Podpera, 1973.

B. dimorphophyllum Cardot & Thériot, Bot. Gaz. (Crawfordsville) 37: 375. pl. 19: f. 3. 1904.
Other use: *Bryum pseudotriquetrum* fo. *dimorphophyllum* (Cardot & Thériot) Podpera, 1973.

Bryum, continued.

B. distantifolium Cardot & Thériot, Bot. Gaz. (Crawfordsville) 37: 373. pl. 21: f. 2. 1904.
Other use: *Bryum pallens* fo. *distantifolium* (Cardot & Thériot) Podpera, 1973.

B. drepanocarpum Philibert ex Cardot & Thériot, Proc. Wash. Acad. Sci. 4: 322. pl. 18: f. 1. 1902.
Other use: *Bryum pallens* subsp. *drepanocarpum* (Philibert ex Cardot & Thériot) Podpera, 1973.

B. dunense A. J. E. Smith & H. Whitehouse, J. Bryol. 10: 41. f. 7a. 1978.
Type: United Kingdom. Kirkcudbright, Craigmair quarry, Dalbeattie, *Milne-Redhead*, 1965. Other indicated distribution: Corsica, Greece, Ireland, Sweden, Turkey.

B. duvalii Voit in Sturm, 1812.

B. duvalii var. *gaspeanum* Kindberg in Macoun, Cat. Canad. Pl., Musci 272. 1892.
Other use: *Bryum weigelii* fo. *gaspeanum* (Kindberg in Macoun) Pilous in Podpera, 1973.

B. duvalii var. *latodecurrens* C. Müller & Kindberg in Macoun, Cat. Canad. Pl., Musci 132. 1892.
Other use: *Bryum weigelii* var. *latodecurrens* (C. Müller & Kindberg in Macoun) Pilous in Podpera, 1973.

B. duvalii var. *obtusatum* Cardot & Thériot, Proc. Wash. Acad. Sci. 4: 322. 1902.
Other use: *Bryum weigelii* fo. *obtusatum* (Cardot & Thériot) Pilous in Podpera, 1973.

B. duvalii fo. *robustum* I. Hagen, Musci Norveg. Bor. 201. 1901.
Other use: *Bryum weigelii* fo. *robustum* (I. Hagen) Pilous in Podpera, 1973.

B. duvalii var. *viride* Amann, Fl. Mouss. Suisse 2: 198. 1918.
Other use: *Bryum weigelii* fo. *viride* (Amann) Pilous in Podpera, 1973.

B. duvalioides (Itzigsohn in Rabenhorst) Warnstorf, 1896 [1897].

B. duvalioides var. *brevifolium* Mikutowicz, Bryoth. Balt. 90. 1909.
Other use: *Bryum pseudotriquetrum* fo. *brevifolium* (Mikutowicz) Podpera, 1973.

B. duvalioides var. *cuspidatum* Mikutowicz, Bryoth. Balt. 90. 1900.
Other use: *Bryum pseudotriquetrum* fo. *cuspidatum* (Mikutowicz) Podpera, 1973.

B. duvalioides var. *elatum* Hammerschmid, Mitt. Bayer. Bot. Ges. 2(19): 332. 1911.
Other use: *Bryum pseudotriquetrum* fo. *elatum* (Hammerschmid) Podpera, 1973.

B. ekstamii Savicz-Ljubitskaya, Novosti Sist. Niz. Rast. 1966: 331. 1966.
Replaced name: *Bryum papillosum* H. Arnell ex G. Roth, 1904.
Blocking name: *Bryum papillosum* Dickson, 1801.

Bryum, continued.

B. elegans Nees in Bridel, 1827.

B. elegans var. *norvegicum* Kaurin & H. Arnell, Bot. Not. 1896: 107. 1896.
Other use: *Bryum pseudotriquetrum* fo. *norvegicum* (Kaurin & H. Arnell) Podpera, 1973.

B. elwendicum Fehlner, Verh. Zool.-Bot. Ges. Wien 33: 435. 1884.
Other use: *Bryum lisae* var. *elwendicum* (Fehlner) Margadant, 1972.

B. emergens C. Müller, Linnaea 42: 306. 1879.
Other use: *Pohlia emergens* (C. Müller) A. J. Shaw, 1987.

B. enisseense Savicz-Ljubitskaya, Novosti Sist. Niz. Rast. 1966: 331. 1966.
Replaced name: *Bryum nudum* Arnold, 1898.
Blocking name: *Bryum nudum* Dickson, 1801.

B. erectum W. J. Hooker in Kunth, Syn. Pl. 1: 58. 1822.
Other use: *Brachymenium erectum* (W. J. Hooker in Kunth) Margadant, 1972.

**B. erectum* Brotherus, Philipp. J. Sci. 3: 19. 1908.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Bryum erectum* W. J. Hooker in Kunth, 1822.
Other use: *Anomobryum erectum* B. C. Tan & T. Koponen, 1989.

B. ernestii E. Bauer, Musci Eur. & Amer. Exsic. 304. 1931.
Other use: *Bryum pallens* fo. *ernestii* (E. Bauer) Podpera, 1973.

**B. erythrocarpum* Schwägrichen, 1816, "*erythrocarpon*."
*illegitimate, type of earlier name included (Article 63.1).

B. erythrocarpum var. *hegelmaieri* Podpera, Preslia 2: 84. 1922 [1923].
Other use: *Bryum radiculosum* fo. *hegelmaieri* (Podpera) Margadant & During, 1982, *Bryum radiculosum* var. *hegelmaieri* (Podpera) Margadant & During, 1982.

B. erythrocarpum var. *meylanii* Podpera, Consp. Musc. Eur. 354. 1954.
Replaced name: *Bryum erythrocarpum* var. *turfaceum* Meylan in Amann, 1918.
Blocking name: *Bryum erythrocarpum* var. *turfaceum* W. P. Schimper, 1860.
Other use: *Bryum atrovirens* var. *meylanii* (Podpera) Wijk & Margadant, 1965.

**B. erythrocarpum* var. *turfaceum* Meylan in Amann, 1918.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Bryum erythrocarpum* var. *turfaceum* W. P. Schimper, 1860.

B. erythroloma (Kindberg) Syed, J. Bryol. 7: 301. 1973.
Basionym: *Bryum capillare* subsp. *erythroloma* Kindberg, 1897 [1898].

B. erythrophylloides Kindberg in Macoun, Cat. Canad. Pl., Musci 272. 1892.
Other use: *Bryum cryophilum* subsp. *erythrophylloides* (Kindberg in Macoun) Pilous in Podpera, 1973.

B. erythrophyllum Kindberg in Macoun, Cat. Canad. Pl., Musci 131. 1892.
Other use: *Bryum cryophilum* subsp. *erythrophyllum* (Kindberg in Macoun) Pilous in Podpera, 1973.

B. euryloma Cardot & Thériot, Bot. Gaz. (Crawfordsville) 30: 20. pl. 5: f. 2. 1900.
Other use: *Bryum pseudotriquetrum* fo. *euryloma* (Cardot & Thériot) Podpera, 1973.

Bryum, continued.

B. exstans Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 72. 1859.
Other use: *Bryum pallens* subsp. *exstans* (Mitten) Podpera, 1973.

**B. extenuatum* Renauld & Cardot, Bot. Gaz. (Crawfordsville) 15: 57. pl. 8: a. 1890.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Bryum extenuatum* Mitten, 1859.
Other use: *Bryum pseudotriquetrum* subsp. *extenuatum* Podpera, 1973.

**B. fallax* Milde in Rabenhorst, 1859.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Bryum fallax* (Hedwig) Dickson ex Withering, 1801.

B. fallax fo. *propaguliferum* Mönkemeyer, Sitzungsber. Naturf. Ges. Leipzig 32: 67. 1906, "*propagulifera*."
Other use: *Bryum pallens* fo. *propaguliferum* (Mönkemeyer) Podpera, 1973.

B. finmarkicum Kaurin in E. Jørgensen, Skr. Vidensk.-Selsk. Christiana, Math.-Naturvidensk. Kl. 1894(8): 88. 1894.
Other use: *Bryum pallens* var. *finmarkicum* (Kaurin in E. Jørgensen) Podpera, 1973.

B. fissum Ruthe, Hedwigia 36: 386. 1897.
Other use: *Bryum stenotrichum* var. *fissum* (Ruthe) Ochyra & Szmajda, 1978.

B. flavituber R. Wilczek & Demaret, Bull. Jard. Bot. Natl. Belgique 46: 408. 1976.
Type: U.S.A. Hawaii: Oahu, Honolulu International Airport, 5 feet, *Hoe 3422.0* (Bryph. Hawaii. Exsicc. 33). Holotype: BR.

B. flexicaule C. Müller, Nuovo Giorn. Bot. Ital., n.s., 3: 96. 1896.
Other use: *Bryum recurvulum* var. *flexicaule* (C. Müller) Ochi, 1963.

**B. flexuosum* Austin, Bot. Gaz. (Crawfordsville) 4: 152. 1879.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Bryum flexuosum* (Hedwig) Withering, 1801.
Other use: *Bryum lacustre* var. *flexuosum* Podpera, 1973.

B. fridtzii I. Hagen, Tromsø Mus. Aarsh. 21-22(2): 217. 1901.
Other use: *Bryum algovicum* var. *fridtzii* (I. Hagen) Margadant, 1972.

**B. frondei* Podpera, Bryum Gen. Monogr. Prodr. 17: 188. 1973.
*invalid, orthographic variant (Article 75.1).
Correct name: *Bryum froudei* Kindberg, 1892.

**B. fulvellum* Wilson ex Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 69. 1859.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Bryum fulvellum* Dickson, 1801.
Other use: *Brachymenium alpinum* Ochi, 1964, *Bryum inclinatum* var. *fulvellum* Podpera, 1973.

B. funckiioides J. Fröhlich, Mitt. Thüring. Bot. Ges. 1(2-3): 65. 1955.
Note: not in Index Muscorum.

B. fuscum Lindberg, Bot. Not. 1884: 67. 1884.
Other use: *Bryum lisae* var. *fuscum* (Lindberg) Margadant, 1972.

B. fusiferum Mitten, J. Linn. Soc., Bot. 12: 290. 1869.
Other use: *Schizymenium fusiferum* (Mitten) A. J. Shaw, 1985.

Bryum, continued.

B. gedeanum Bosch & Sande Lacoste, Bryol. Jav. 1: 147. pl. 120. 1860.
Other use: *Pohlia gedeana* (Bosch & Sande Lacoste) Gangulee, 1974.

B. gemmaceum Bryhn & Ryan, Rep. Second Norweg. Arctic Exped. "Fram" 1898-1902, Mosses 2(11): 83. 1907.
Other use: *Bryum inclinatum* var. *gemmaceum* (Bryhn & Ryan) Podpera, 1973.

B. gemmiferum R. Wilczek & Demaret, Bull. Jard. Bot. Natl. Belgique 46: 529. f. 5. 1976.
Type: Belgium. Flanders, Hooglede, *Vanhecke 2900*. Holotype: BR. Other indicated distribution: Canary Islands, Netherlands.

B. gemmilucens R. Wilczek & Demaret, Bull. Jard. Bot. Natl. Belgique 46: 537. f. 9. 1976.
Type: United Kingdom. England: Ganthorpe, *Spruce*, 1845. Holotype: BM.

B. glaciale Bridel, Bryol. Univ. 1: 852. 1826.
Other use: *Pohlia wahlenbergii* var. *glacialis* (Bridel) E. F. Warburg, 1962 [1963].

B. globosum Lindberg, 1866 [1867].

**B. globosum* fo. *sibiricum* Podpera, Bryum Gen. Monogr. Prodr. 17: 229. 1973.
*invalid, single element not cited as holotype (Article 37.3).
Type: Several specimens cited but none indicated as type.

B. gonoi Brotherus ex Cardot, Bull. Soc. Bot. Genève, ser. 2, 1(3): 127. 1909.
Other use: *Bryum neodamense* var. *gonoi* (Brotherus ex Cardot) Podpera, 1973.

B. gossypinum Gao Chien & Chang Kung-chu, Acta Phytotax. Sin. 17(4): 116. f. 1: 34-39. 1979.
Type: China. Xizang: Goji Xian, 5550 m, *Wang 8*. Holotype: IFP.

B. gracilens Cardot, Bull. Soc. Bot. Genève, ser. 2, 1: 128. 1909.
Other use: *Bryum pseudotriquetrum* fo. *gracilens* (Cardot) Podpera, 1973.

B. graefianum Schliephacke, 1885.

B. graefianum var. *dichrous* E. Jørgensen, Forh. Vidensk.-Selsk. Christiania 1894(8): 85. 1894.
Other use: *Bryum inclinatum* fo. *dichrous* (E. Jørgensen) Podpera, 1973.

B. groenlandicum H. Arnell in Dusén, Bih. Kongl. Svenksa Vetensk.-Akad. Handl. 27. Afd. 3(1): 39. f. a-d. pl. 4: f. 1-2. 1901.
Other use: *Bryum inclinatum* var. *groenlandicum* (H. Arnell in Dusén) Podpera, 1973.

B. gyoerffianum Györffy ex Podpera, Bryum Gen. Monogr. Prodr. 17: 222. 1973, "*gyorffianum*."
Type: Czechoslovakia. Tatra Magna, *Gyoerffy*, 1907. Holotype: "H.P."
Note: cited as invalid in Index Muscorum and cited from "Mag. Bot. Lapok. 18: 25. 1919."

B. gypsophilum Wallroth, Fl. Crypt. Germ. 1: 273. 1831.
Other use: *Pohlia nutans* var. *gypsophila* (Wallroth) Wijk & Margadant, 1965.

Bryum, continued.

B. haematophyllum Kindberg in Macoun, Cat. Canad. Pl., Musci 118. 1892.
Other use: *Bryum pallens* fo. *haematophyllum* (Kindberg in Macoun) Podpera, 1973.

B. haematostomum E. Jørgensen, 1894.

B. haematostomum var. *fennicum* Brotherus, Laubm. Fennoskand. 291. 1923.
Other use: *Bryum inclinatum* fo. *fennicum* (Brotherus) Podpera, 1973.

B. handelii Brotherus, Symb. Sin. 4: 58. 1929.
Other use: *Bryum blandum* subsp. *handelii* (Brotherus) Ochi, 1968.

B. hawaiicum Hoe, Lyonia 1: 9. 1974.
Replaced name: *Bryum crassicostatum* Brotherus, 1927.
Blocking name: *Bryum crassicostatum* C. Müller, 1898.

B. heterophyllum W. J. Hooker, Trans. Linn. Soc. London 9: 318. pl. 28: f. 1. 1808.
Other use: *Stellariomnium heterophyllum* (W. J. Hooker) M. C. Bowers, 1980.

B. himalayanopellucidum Ochi, J. Fac. Educ. Tottori Univ., Nat. Sci. 34: 51. 1985.
Replaced name: *Bryum pellucidum* (Dixon & Badhwar) Ochi, 1972.
Blocking name: *Bryum pellucidum* H. Richter, 1840.

**B. himalayanum* Dixon ex Ochi, J. Jap. Bot. 39: 51. f. 9. 1964.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Bryum himalayanum* (Mitten) C. Müller, 1900.
Correct name: *Bryum badhwarii* Ochi in Noguchi in H. Hara, 1966.
Type: India. NW Himalaya, Lahul, Bhaga Valley, 16,000 feet, *Badhwar*, 1928. Holotype: BM.

B. holzingeri Cardot & Thériot, Minnesota Bot. Stud. 3: 119. pl. 21: f. 1. 1903.
Other use: *Bryum pendulum* fo. *holzingeri* (Cardot & Thériot) Podpera, 1973.

B. huillense Welwitsch & Duby, Mém. Soc. Phys. Genève 21: 220. pl. 1: f. 5. 1870.
Other use: *Rhodobryum huillense* (Welwitsch & Duby) Touw, 1978.

B. hyalinum (T. Koponen & Norris) Ochi, J. Fac. Educ. Tottori Univ., Nat. Sci. 34: 49. 1985.
Basionym: *Anomobryum hyalinum* T. Koponen & Norris, 1984.

B. hydrophilum Kindberg, Bull. Torrey Bot. Club 16: 95. 1889, "*hydrophyllum*."
Other use: *Bryum pseudotriquetrum* fo. *hydrophilum* (Kindberg) Podpera, 1973.

**B. hyperboreum* Bryhn & Ryan, Rep. Second Norweg. Arctic Exped. "Fram" 1898-1902, Mosses 2(11): 73. 1907.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Bryum hyperboreum* Gunnerus ex Withering, 1801.
Other use: *Bryum inclinatum* subsp. *hyperboreum* Podpera, 1973.

Bryum, continued.

**B. inclinatum* (Swartz ex Bridel) Blandow, 1809.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Bryum inclinatum* (Hedwig) Dickson ex Withering, 1801.

B. inclinatum var. *achradoeides* Podpera, Bryum Gen. Monogr. Prodr. 17: 36. 1973.
Type: Norway. Oexfjord, *Baur*, 1897. Holotype: "H.P." Paratypes cited.

B. inclinatum fo. *achromatum* Podpera, Bryum Gen. Monogr. Prodr. 17: 52. 1973.
Type: Sweden. Jamtland, *Hassler s.n.* Holotype: "H.M."

B. inclinatum fo. *ackermannae* (G. Roth) Podpera, Bryum Gen. Monogr. Prodr. 17: 159. 1973.
Basionym: *Bryum kaurinianum* var. *ackermannae* G. Roth, 1905.

B. inclinatum fo. *acutioperculatum* Podpera, Bryum Gen. Monogr. Prodr. 17: 146. 1973.
Type: Sweden. Tornea Lapm. Paddos, *Jäderholm*, 1916. Holotype: "H.M."
Note: homonym of equal priority with *B. inclinatum* fo. *acutioperculatum* Podpera.

B. inclinatum fo. *acutioperculatum* Podpera, Bryum Gen. Monogr. Prodr. 17: 24. 1973.
Type: Czechoslovakia. Moravia: Olomouc, *Podpera s.n.* Holotype: "H.P."
Note: homonym of equal priority with *B. inclinatum* fo. *acutioperculatum* Podpera.

B. inclinatum var. *adolphi* Podpera, Bryum Gen. Monogr. Prodr. 17: 93. 1973.
Type: Sweden. Jamtland, *Hassler s.n.* Holotype: "H.M."

B. inclinatum subsp. *allocutum* Podpera, Bryum Gen. Monogr. Prodr. 17: 159. 1973.
Type: Sweden. Jamtland, *Hassler s.n.* Holotype: "H.M."

B. inclinatum fo. *alpestre* Podpera, Folia Cryptog. 1: 971. 1930.
Other use: *Bryum inclinatum* var. *alpestre* (Podpera) Podpera, 1973.

B. inclinatum var. *alpestre* (Podpera) Podpera, Bryum Gen. Monogr. Prodr. 17: 38. 1973.
Basionym: *Bryum inclinatum* fo. *alpestre* Podpera, 1930.

B. inclinatum var. *ancylocarpum* Podpera, Bryum Gen. Monogr. Prodr. 17: 114. 1973.
Type: Sweden. Lapponia Tornensis, *Jäderholm s.n.* Holotype: "H.P."

B. inclinatum var. *angustidens* (Bryhn & Ryan) Podpera, Bryum Gen. Monogr. Prodr. 17: 119. 1973.
Basionym: *Bryum angustidens* Bryhn & Ryan, 1907.

B. inclinatum fo. *angustius* Podpera, Bryum Gen. Monogr. Prodr. 17: 37. 1973.
Type: Finland. Alandia, *Bomansson s.n.* Holotype: "H.L.D."

B. inclinatum var. *apioeides* Podpera, Bryum Gen. Monogr. Prodr. 17: 180. 1973.
Type: Sweden. Uppland, Bjorko-Arhoma, Bjorko, *Arnell s.n.* Holotype: "H.P."
Note: homonym of equal priority with *B. inclinatum* var. *apioeides* Podpera.

Bryum, continued.

B. inclinatum var. *apioeides* Podpera, Bryum Gen. Monogr. Prodr. 17: 56. 1973.
Type: Finland. Nyland, *Brotherus* (Musci Eur. Exsicc. 361). Holotype: "H.P."
Note: homonym of equal priority with *B. inclinatum* var. *apioeides* Podpera.

B. inclinatum subsp. *apiomorphum* Podpera, Bryum Gen. Monogr. Prodr. 17: 150. 1973.
Type: Sweden. Uppland, *Halle s.n.* Holotype: "H.M.H."

B. inclinatum fo. *appendiculatum* Podpera, Bryum Gen. Monogr. Prodr. 17: 28. 1973.
Type: Sweden. Tornensis, Abisko, *Podpera s.n.* Holotype: "H.P."

B. inclinatum fo. *appositum* Podpera, Bryum Gen. Monogr. Prodr. 17: 53. 1973.
Type: Norway. Trondhjem, *Hassler s.n.* Holotype: "H.M.H."

B. inclinatum var. *arcticola* Podpera, Bryum Gen. Monogr. Prodr. 17: 73. 1973.
Type: Sweden. Lapponia Tornensis, *Jäderholm*, 1917. Holotype: "H.P."

B. inclinatum var. *arctoidium* Podpera, Bryum Gen. Monogr. Prodr. 17: 101. pl. 17: m-p. 1973.
Type: Sweden. Jamtland, *Hassler s.n.* Holotype: "H.M."

B. inclinatum var. *aristulatum* Podpera, Bryum Gen. Monogr. Prodr. 17: 30. 1973.
Type: "Grienntel (?)," "coll.?" Holotype: "H.V. ex hb. Juratzka."

B. inclinatum var. *astrictum* Podpera, Bryum Gen. Monogr. Prodr. 17: 78. 1973.
Type: Sweden. Jamtland, *Hassler*, 1909. Holotype: "H.M."

B. inclinatum subsp. *ateleostomum* (Philibert ex Cardot & Thériot) Podpera, Bryum Gen. Monogr. Prodr. 17: 188. 1973.
Basionym: *Bryum ateleostomum* Philibert ex Cardot & Thériot, 1902.

B. inclinatum fo. *atrofuscum* Podpera, Bryum Gen. Monogr. Prodr. 17: 24. 1973.
Type: Sweden. Upland [sic], Radmanso, *Arnell s.n.* Holotype: "H.P."

B. inclinatum var. *axelii* Podpera, Bryum Gen. Monogr. Prodr. 17: 108. pl. 19: n-p, r. 1973.
Type: Sweden. Lapponia Tornensis, *Jäderholm s.n.* Holotype: "H.P."

B. inclinatum fo. *bavaricum* Podpera, Bryum Gen. Monogr. Prodr. 17: 154. 1973.
Type: Germany. Bavaria: Allgau, *Holler s.n.* Holotype: "H.Oen."

B. inclinatum subsp. *berninae* Podpera, Bryum Gen. Monogr. Prodr. 17: 168. pl. 29: t-v. 1973.
Type: Switzerland. Bernina, 2250 m, *Podpera*, 1924. Holotype: "H.P." Paratype cited.

**B. inclinatum* subfo. *berolinense* Podpera, Bryum Gen. Monogr. Prodr. 17: 25. 1973.
*invalid, single element not cited as holotype (Article 37.3).
Type: several specimens cited but none indicated as type.

B. inclinatum var. *blyttiellum* Podpera, Bryum Gen. Monogr. Prodr. 17: 95. 1973.
Type: Norway. Oslo, *Blytt s.n.* Holotype: "H.L.D."

Bryum, continued.

B. inclinatum subsp. *borosii* Podpera, Bryum Gen. Monogr. Prodr. 17: 172. 1973.
Type: Hungary. Com. Somogy, *Boros 1402*. Holotype: "H.P."

B. inclinatum var. *brachycephalum* Podpera, Bryum Gen. Monogr. Prodr. 17: 86. 1973.
Type: Sweden. Jamtland, *Hassler*, 1907. Holotype: "H.M."

B. inclinatum subsp. *brachymorphum* Podpera, Bryum Gen. Monogr. Prodr. 17: 182. 1973.
Type: Norway. N. Tromsoe, *Arnell*, 1891. Holotype: "H.M.H."

B. inclinatum subsp. *brachyneuron* (Kindberg) Podpera, Bryum Gen. Monogr. Prodr. 17: 174. 1973.
Basionym: *Bryum brachyneuron* Kindberg, 1892.

B. inclinatum var. *brachythecium* (Bryhn & Ryan) Podpera, Bryum Gen. Monogr. Prodr. 17: 111. 1973.
Basionym: *Bryum brachythecium* Bryhn & Ryan, 1907.

B. inclinatum fo. *brachytrichum* Podpera, Bryum Gen. Monogr. Prodr. 17: 53. 1973.
Type: Sweden. Varmland, *Johansson s.n.* Holotype: "H.M.H."

B. inclinatum var. *breuteliellum* Podpera, Bryum Gen. Monogr. Prodr. 17: 106. 1973.
Type: Greenland, *Breutel s.n.* Holotype: "Hb. Vind. No. 1518."

B. inclinatum var. *breutelii* Podpera, Bryum Gen. Monogr. Prodr. 17: 84. 1973.
Type: Greenland, *Breutel s.n.* Holotype: "H.V."

B. inclinatum fo. *brevicolle* Podpera, Bryum Gen. Monogr. Prodr. 17:114. 1973.
Type: Sweden. Vastervik prope Grantzokanal, *Jäderholm*, 1910. Holotype: "H.P."
Note: homonym of equal priority with *B. inclinatum* subsp. *brevicollum* Podpera.

B. inclinatum subsp. *brevicollum* Podpera, Bryum Gen. Monogr. Prodr. 17: 160. pl. 27: s-v. 1973.
Type: Norway. Kistrand, *Kaurin*, 1894. Holotype: "H.L.D."
Note: homonym of equal priority with *B. inclinatum* fo. *brevicolle* Podpera.

B. inclinatum fo. *brevisetum* Podpera, Bryum Gen. Monogr. Prodr. 17: 30. 1973.
Type: Sweden. Jamtland: Gaddede, *Hassler s.n.* Holotype: "H.M."

**B. inclinatum* var. *brockhausenii* Podpera, Bryum Gen. Monogr. Prodr. 17: 90. 1973.
*invalid, single element not cited as holotype (Article 37.3).
Type: Germany. Westfalen, *Brockhausen*, 1910. Herbaria: "H.Ls., H.P."

B. inclinatum var. *bruchianum* Podpera, Bryum Gen. Monogr. Prodr. 17: 130. pl. 23: a: 1. 1973.
Type: Germany. Zweibrucken, *Bruch s.n.* Holotype: "H.L.D."

B. inclinatum var. *cadmiaecolum* Podpera, Bryum Gen. Monogr. Prodr. 17: 86. 1973.
Type: Germany. Guestfalia, *Beckhaus*, [18]79. Holotype: "H.M."

Bryum, continued.

B. inclinatum var. *caespitosulum* Podpera, Bryum Gen. Monogr. Prodr. 17: 44. 1973.

Type: Norway. Dovre, *Podpera s.n.* Holotype: "H.P."

B. inclinatum var. *callodon* Podpera, Bryum Gen. Monogr. Prodr. 17: 58. 1973.

Type: Norway. Porsanger, *Kaurin*, 1894. Holotype: "H.L.D."

B. inclinatum var. *calomorphum* Podpera, Bryum Gen. Monogr. Prodr. 17: 70. 1973.

Type: Norway. Trondhjem, *Hassler*, 1911. Holotype: "H.M."

B. inclinatum subsp. *canadaecola* Podpera, Bryum Gen. Monogr. Prodr. 17: 175. 1973.

Type: Canada. British Columbia, *Macoun*, 1901. Holotype: "H.M."

B. inclinatum var. *cancelliforme* (Bryhn & Ryan) Podpera, Bryum Gen. Monogr. Prodr. 17: 81. 1973.

Basionym: *Bryum cancelliforme* Bryhn & Ryan, 1907.

B. inclinatum var. *chloodes* Podpera, Bryum Gen. Monogr. Prodr. 17: 127. pl. 22: a-d. 1973.

Type: Sweden. Lynge-skjar, *Podpera*, 1925. Holotype: "H.P."

B. inclinatum var. *coelomorphum* Podpera, Bryum Gen. Monogr. Prodr. 17: 77. 1973.

Type: Sweden. Jamtland, *Hassler*, 1909. Holotype: "H.M."

Note: invalid, no Latin description (Article 36.1), in Consp. Musc. Eur. 396. 1954.

B. inclinatum var. *coelophyllum* Podpera, Bryum Gen. Monogr. Prodr. 17: 95. 1973.

Type: Sweden. Jamtland, *Hassler*, 1909. Holotype: "H.M."

B. inclinatum fo. *contractum* (Bomansson) Podpera, Bryum Gen. Monogr. Prodr. 17: 137. 1973.

Basionym: *Bryum contractum* Bomansson, 1899.

B. inclinatum var. *corioideum* (Bryhn & Ryan) Podpera, Bryum Gen. Monogr. Prodr. 17: 111. 1973.

Basionym: *Bryum corioideum* Bryhn & Ryan, 1907.

B. inclinatum var. *cresmatodon* Podpera, Bryum Gen. Monogr. Prodr. 17: 133. pl. 23: v-x. 1973.

Type: Norway. Bossekop, *Baur*, 1892. Holotype: "H.P."

B. inclinatum var. *cuspidatum* Podpera, Bryum Gen. Monogr. Prodr. 17: 30. 1973.

Type: Sweden. Gestrikland, *Arnell s.n.* Holotype: "H.P." Paratypes cited.

B. inclinatum subfo. *cylindricum* (H. Winter) Podpera, Bryum Gen. Monogr. Prodr. 17: 144. 1973.

Basionym: *Bryum archangelicum* fo. *cylindricum* H. Winter, 1910.

B. inclinatum fo. *cylindropse* Podpera, Bryum Gen. Monogr. Prodr. 17: 24. 1973.

Type: Czechoslovakia. Bohemia: Caslav, *Lukes s.n.* Holotype: "H.M.M.Br." Paratypes cited.

Bryum, continued.

**B. inclinatum* subsp. *cyrtomorphum* Podpera, Bryum Gen. Monogr. Prodr. 17: 151. 1973.

*invalid, single element not cited as holotype (Article 37.3).

Type: U.S.S.R. Sibiria. Tomsk, collector not indicated by author. Herbarium: "H.P."

B. inclinatum var. *cyrtoneurum* Podpera, Bryum Gen. Monogr. Prodr. 17: 90. 1973.

Type: Sweden. Jamtland, *Hassler*, 1907. Holotype: "H.M.H."

B. inclinatum fo. *diagraptum* Podpera, Bryum Gen. Monogr. Prodr. 17: 159. 1973.

Type: Sweden. Gestrikland, *Arnell s.n.* Holotype: "H.P."

B. inclinatum fo. *dichrous* (E. Jørgensen) Podpera, Bryum Gen. Monogr. Prodr. 17: 52. 1973, "*dichroum*."

Basionym: *Bryum graefianum* var. *dichrous* E. Jørgensen, 1894.

B. inclinatum var. *discolor* Podpera, Bryum Gen. Monogr. Prodr. 17: 116. 1973.

Type: Norway. Hvalor, *Ryan s.n.* Holotype: "H.L.D."

B. inclinatum subsp. *drivaecolum* Podpera, Bryum Gen. Monogr. Prodr. 17: 172. 1973.

Type: Norway. Inter Kongsvoll et Drivstua, *Podpera*. Holotype: "H.P."

B. inclinatum var. *duseniellum* Podpera, Bryum Gen. Monogr. Prodr. 17: 126. 1973.

Type: Argentina. Patagonia austr., Lago Argentino, *Dusén 5671*. Holotype: "H.M."

B. inclinatum var. *eckeroense* H. Arnell ex Podpera, Bryum Gen. Monogr. Prodr. 17: 178. 1973.

Type: Sweden. Gestrikland, Hille, *Arnell s.n.* Holotype: "H.P."

B. inclinatum fo. *elegantulum* Podpera, Bryum Gen. Monogr. Prodr. 17: 52. 1973.

Type: Sweden. Jamtland, *Hassler s.n.* Holotype: "H.M."

B. inclinatum fo. *epicarsium* Podpera, Bryum Gen. Monogr. Prodr. 17: 118. 1973.

Type: Sweden. Gestrikland, *Arnell s.n.* Holotype: "H.P."

B. inclinatum var. *epicharum* Podpera, Bryum Gen. Monogr. Prodr. 17: 40. 1973.

Type: Sweden. Jamtland, *Hassler s.n.* Holotype: "H.M."

B. inclinatum var. *episemum* Podpera, Bryum Gen. Monogr. Prodr. 17: 86. 1973.

Type: Sweden. Jamtland: 800 m, *Hassler*, 1909. Holotype: "H.M."

B. inclinatum fo. *eugenes* Podpera, Bryum Gen. Monogr. Prodr. 17: 94. 1973.

Type: Sweden. Jamtland, *Hassler*, 1909. Holotype: "H.M.H."

B. inclinatum var. *euphyes* Podpera, Bryum Gen. Monogr. Prodr. 17: 43. 1973.

Type: Norway. Dovre, *Podpera s.n.* Holotype: "H.P."

B. inclinatum subsp. *euprepes* Podpera, Bryum Gen. Monogr. Prodr. 17: 180. 1973.

Type: Sweden. Angermanland, *Arnell s.n.* Holotype: "H.M.H." Paratypes cited.

Bryum, continued.

B. inclinatum var. *eurychores* Podpera, Bryum Gen. Monogr. Prodr. 17: 117. 1973.
Type: Sweden. Gestrikland, *Arnell s.n.* Holotype: "H.P."; isotype: "hb. Upsala."

B. inclinatum var. *eurydictyum* Podpera, Bryum Gen. Monogr. Prodr. 17: 91. 1973.
Type: Austria. Todtes Gebirge, *Frank s.n.* Holotype: "H.P."

B. inclinatum fo. *euryloma* Podpera, Bryum Gen. Monogr. Prodr. 17: 52. 1973.
Type: Sweden. Jamtland, *Hassler s.n.* Holotype: "H.M."

B. inclinatum var. *eurymerum* Podpera, Bryum Gen. Monogr. Prodr. 17: 125. 1973.
Type: Patagonia austr., Casa Ollne, 500 m, *Dusén 6008*. Holotype: "H.M."

B. inclinatum fo. *euryphyllum* Podpera, Bryum Gen. Monogr. Prodr. 17: 52. 1973.
Type: Sweden. Jamtland, *Hassler s.n.* Holotype: "H.M."
Note: homonym of equal priority with *B. inclinatum* var. *euryphyllum* Podpera.

B. inclinatum var. *euryphyllum* Podpera, Bryum Gen. Monogr. Prodr. 17: 138. 1973.
Type: Sweden. Jamtland, *Hassler s.n.* Holotype: "H.M."
Note: homonym of equal priority with *B. inclinatum* fo. *euryphyllum* Podpera.

B. inclinatum subsp. *euryporcum* Podpera, Bryum Gen. Monogr. Prodr. 17: 159. 1973.
Type: Norway. N. Trondhjem, *Hassler*, 1909. Holotype: "H.M."

B. inclinatum var. *eurysagenum* Podpera, Bryum Gen. Monogr. Prodr. 17: 94. 1973.
Type: Sweden. Jamtland, *Hassler s.n.* Holotype: "H.M."

B. inclinatum var. *eurysestrum* Podpera, Bryum Gen. Monogr. Prodr. 17: 91. 1973.
Type: Sweden. Jamtland, *Hassler*, 1914. Holotype: "H.M.H."

B. inclinatum var. *eurysporum* Podpera, Bryum Gen. Monogr. Prodr. 17: 126. 1973.
Type: Germany. Saxonia, Leipzig, *Stolle s.n.* Holotype: "H.P."

B. inclinatum var. *eurystomoides* Podpera, Bryum Gen. Monogr. Prodr. 17: 93. 1973.
Type: Canada. Mt. Albert, *Macoun*, 1882. Holotype: "H.M."

B. inclinatum var. *eusematum* Podpera, Bryum Gen. Monogr. Prodr. 17: 50. 1973.
Type: Czechoslovakia. Slovakia: Belanske Tatry, *Smarda s.n.* Holotype: "H.P."

B. inclinatum subsp. *euthales* Podpera, Bryum Gen. Monogr. Prodr. 17: 182. 1973.
Type: Sweden. Gestrikland, *Arnell*, 1899. Holotype: "H.M.H."

B. inclinatum var. *excurrens* Podpera, Bryum Gen. Monogr. Prodr. 17: 31. 1973.
Type: Norway. Lofoten, *Podpera s.n.* Holotype: "H.P."

Bryum, continued.

B. inclinatum fo. *fennicum* (Brotherus) Podpera, Bryum Gen. Monogr. Prodr. 17: 60. 1973.
Basionym: *Bryum haematostomum* var. *fennicum* Brotherus, 1923.

B. inclinatum subsp. *finsense* Podpera, Bryum Gen. Monogr. Prodr. 17: 173. 1973.
Type: Norway. Finse an der Bergensbahn, *Abur 19*. Holotype: "H.P."

B. inclinatum var. *formosum* Podpera, Bryum Gen. Monogr. Prodr. 17: 98. pl. 17: a-d. 1973.
Type: Sweden. Jamtland, *Hassler*, 1912. Holotype: "H.M."

B. inclinatum var. *fulvellum* Podpera, Bryum Gen. Monogr. Prodr. 17: 46. 1973.
Replaced name: *Bryum fulvellum* Wilson ex Mitten, 1859.
Blocking name: *Bryum fulvellum* Dickson, 1801.
Note: new name, based on adoption of earlier epithet (Article 72.Note 1).

B. inclinatum var. *gaeddedense* Podpera, Bryum Gen. Monogr. Prodr. 17: 100. pl. 17: j-l. 1973.
Type: Sweden. Jamtland, *Hassler s.n.* Holotype: "H.M."

B. inclinatum subfo. *gamsii* Podpera, Bryum Gen. Monogr. Prodr. 17: 144. 1973.
Type: Switzerland. Vallis, Fully, 2230 m, *Gams s.n.* Holotype: "H.Gs."

B. inclinatum var. *gemmaceum* (Bryhn & Ryan) Podpera, Bryum Gen. Monogr. Prodr. 17: 123. 1973.
Basionym: *Bryum gemmaceum* Bryhn & Ryan, 1907.

B. inclinatum var. *glaphyrum* Podpera, Bryum Gen. Monogr. Prodr. 17: 71. 1973.
Type: Sweden. Jamtland, 750 m, *Hassler*, 1909. Holotype: "H.M."

B. inclinatum var. *gonatodum* Podpera, Bryum Gen. Monogr. Prodr. 17: 101. pl. 18: r-t. 1973.
Type: Norway. Lierne, *Hassler s.n.* Holotype: "H.M."

B. inclinatum var. *grapeanum* Podpera, Bryum Gen. Monogr. Prodr. 17: 34. 1973.
Type: Sweden. Ostergotland, *Grape s.n.* Holotype: "H.M.H."

B. inclinatum var. *groenlandicum* (H. Arnell in Dusén) Podpera, Bryum Gen. Monogr. Prodr. 17: 66. 1973.
Basionym: *Bryum groenlandicum* H. Arnell in Dusén, 1901.

B. inclinatum subsp. *guestphalicum* Podpera, Bryum Gen. Monogr. Prodr. 17: 172. 1973.
Type: Germany. Sauerland, Negertal, *Moenkemeyer s.n.* Holotype: "H.P." Paratypes cited.

B. inclinatum subsp. *guilielmii* Podpera, Bryum Gen. Monogr. Prodr. 17: 160. 1973.
Type: Norway. Finmarkens amt, *Baur*, 1897. Holotype: "H.P."

B. inclinatum var. *hapalum* Podpera, Bryum Gen. Monogr. Prodr. 17: 90. 1973.
Type: Sweden. Jamtland, *Hassler*, 1910. Holotype: "H.M."

B. inclinatum var. *hassleri* Podpera, Bryum Gen. Monogr. Prodr. 17: 69. 1973.
Type: Norway. Trondhjem, 500 m, *Hassler*, 1909. Holotype: "H.M."

Bryum, continued.

B. inclinatum var. *heterophyllum* Podpera, Bryum Gen. Monogr. Prodr. 17: 71. 1973.

Type: Sweden. Jamtland, *Hassler s.n.* Holotype: "H.M."

B. inclinatum var. *hintzei* Podpera, Bryum Gen. Monogr. Prodr. 17: 88. 1973.

Type: Yugoslavia. Pomerania, Belgrad, *Hintze*, 1932. Holotype: "H.P."

B. inclinatum subsp. *hyperboreum* Podpera, Bryum Gen. Monogr. Prodr. 17: 148. 1973.

Replaced name: *Bryum hyperboreum* Bryhn & Ryan, 1907.

Blocking name: *Bryum hyperboreum* Gunnerus ex Withering, 1801.

Note: new name, based on adoption of earlier epithet (Article 72.Note 1).

B. inclinatum fo. *hypomorphum* Podpera, Bryum Gen. Monogr. Prodr. 17: 50. 1973.

Type: Sweden. Torne Lappmark, *Jäderholm s.n.* Holotype: "H.P."

B. inclinatum subsp. *idiomorphum* Podpera, Bryum Gen. Monogr. Prodr. 17: 168. pl. 30: r-v. 1973.

Type: Norway. Kristians amt, *Hagen*, 1887. Holotype: "H.M.H."

**B. inclinatum* fo. *incurvum* Podpera, Bryum Gen. Monogr. Prodr. 17: 27. 1973.

*invalid, single element not cited as holotype (Article 37.3).

Type: Several specimens cited but none indicated as type.

B. inclinatum var. *inflatum* H. Arnell ex Podpera, Bryum Gen. Monogr. Prodr. 17: 180. 1973.

Type: Sweden. Angermanland, Sabra, Andholmen prope Lungon, *Arnell s.n.* Holotype: "H.P."

**B. inclinatum* var. *intumescens* Podpera, Bryum Gen. Monogr. Prodr. 17: 33. 1973.

*invalid, single element not cited as holotype (Article 37.3).

Type: Czechoslovakia. Moravia, Olommouc. Two collections cited, neither indicated as holotype.

B. inclinatum var. *kernii* Podpera, Bryum Gen. Monogr. Prodr. 17: 44. 1973.

Type: Austria. Tirolia, Vorarlberg, 2200 m, *Kern s.n.* Holotype: "H.P." Paratype cited.

B. inclinatum subfo. *kiliasii* (Amann) Podpera, Bryum Gen. Monogr. Prodr. 17: 143. 1973.

Basionym: *Bryum killiasii* Amann, 1893.

B. inclinatum var. *kjellmanii* (H. Arnell) Podpera, Bryum Gen. Monogr. Prodr. 17: 81. 1973.

Basionym: *Bryum kjellmanii* H. Arnell, 1918.

B. inclinatum var. *komagatakense* (Cardot) Podpera, Bryum Gen. Monogr. Prodr. 17: 54. 1973.

Basionym: *Bryum komagatakense* Cardot, 1909.

B. inclinatum fo. *lagerheimii* (E. Jørgensen) Podpera, Bryum Gen. Monogr. Prodr. 17: 137. 1973.

Basionym: *Bryum lagerheimii* E. Jørgensen, 1894.

Bryum, continued.

B. inclinatum var. *lanceolatum* Podpera, Bryum Gen. Monogr. Prodr. 17: 37. 1973.
Type: Norway. Dovre, *Baur*, 1892. Holotype: "H.P."

B. inclinatum subsp. *lanciforme* Podpera, Bryum Gen. Monogr. Prodr. 17: 149. 1973.
Type: Sweden. Jamtland, *Hassler*, 1910. Holotype: "H.M."

B. inclinatum fo. *latibulare* Podpera, Bryum Gen. Monogr. Prodr. 17: 53. 1973.
Type: Sweden. Lapponia Tornensis, *Jäderholm*, 1911. Holotype: "H.M."

B. inclinatum var. *leptobryoides* Podpera, Bryum Gen. Monogr. Prodr. 17: 103. pl. 18: y-z. 1973.
Type: Sweden. Jamtland, *Hassler*, 1910. Holotype: "H.M."

B. inclinatum var. *leptothrix* Podpera, Bryum Gen. Monogr. Prodr. 17: 30. 1973.
Type: Sweden. Jamtland, *Hassler s.n.* Holotype: "H.M.H."

B. inclinatum var. *liliputanum* Podpera, Bryum Gen. Monogr. Prodr. 17: 96. 1973.
Replaced name: *Bryum liliputanum* Bryhn & Ryan, 1907.
Note: new name, based on adoption of earlier epithet (Article 72.Note 1).

**B. inclinatum* var. *limbatum* Podpera, Bryum Gen. Monogr. Prodr. 17: 31. 1973.
*invalid, single element not cited as holotype (Article 37.3).
Type: Several specimens cited but none indicated as type.

B. inclinatum fo. *longicollum* Podpera, Bryum Gen. Monogr. Prodr. 17: 24. 1973.
Type: Czechoslovakia. Bohemia: Rokycany, *Maloch s.n.* Holotype: "H.P." Paratypes cited.

B. inclinatum fo. *longipilum* Podpera, Bryum Gen. Monogr. Prodr. 17: 52. 1973.
Type: Sweden. Jamtland, *Hassler s.n.* Holotype: "H.M."

B. inclinatum fo. *macounii* Podpera, Bryum Gen. Monogr. Prodr. 17: 146. 1973.
Replaced name: *Bryum macounii* Kindberg, 1909.
Blocking name: *Bryum macounii* Austin, 1877.
Note: new name, based on adoption of earlier epithet (Article 72.Note 1).

B. inclinatum var. *macroisthmum* Podpera, Bryum Gen. Monogr. Prodr. 17: 180. 1973.
Type: Sweden. Gestrickland, Hille, insulae Valmarsbaden, *Arnell*, 1899. Holotype: "H.M.H."

B. inclinatum var. *macromorphum* Podpera, Bryum Gen. Monogr. Prodr. 17: 132. 1973.
Type: Sweden. Jamtland, *Hassler*, 1912. Holotype: "H.M."

B. inclinatum var. *macrophyllum* Podpera, Bryum Gen. Monogr. Prodr. 17: 31. 1973.
Type: Austria. Tirolia, Innervillgarten, *Gander*, 1885. Holotype: "H.L.D."

B. inclinatum subvar. *majus* (Janzen) Podpera, Bryum Gen. Monogr. Prodr. 17: 146. 1973.
Basionym: *Bryum languardicum* var. *majus* Janzen, 1912.

Bryum, continued.

B. inclinatum var. *mayrii* (Brotherus) Podpera, Bryum Gen. Monogr. Prodr. 17: 37. 1973.

Basionym: *Bryum mayrii* Brotherus, 1899.

B. inclinatum var. *mediocre* Podpera, Bryum Gen. Monogr. Prodr. 17: 78. 1973.

Type: Sweden. Jamtland, *Hassler s.n.* Holotype: "H.M."

B. inclinatum subsp. *megalophyllum* Podpera, Bryum Gen. Monogr. Prodr. 17: 148. 1973.

Type: Sweden. Jamtland, *Hassler*, 1910. Holotype: "H.M."

B. inclinatum var. *megalosporum* Podpera, Bryum Gen. Monogr. Prodr. 17: 127. pl. 22: e-h. 1973.

Type: Norway. Opdal, *Kaurin*, 1882. Holotype: "H.L.D."

B. inclinatum var. *micromorphum* Podpera, Bryum Gen. Monogr. Prodr. 17: 74. 1973.

Type: Sweden. Jamtland, *Hassler*, 1910. Holotype: "H.M."

B. inclinatum fo. *microstomoides* Podpera, Bryum Gen. Monogr. Prodr. 17: 49. 1973.

Type: Sweden. Jamtland, *Hassler s.n.* Holotype: "H.M."

B. inclinatum fo. *microteron* Podpera, Bryum Gen. Monogr. Prodr. 17: 159. 1973.

Type: Norway. Svalbard, Isfjorden, *Hadac s.n.* Holotype: "H.Hc."

B. inclinatum var. *minus* (H. Arnell in Dusén) Podpera, Bryum Gen. Monogr. Prodr. 17: 69. 1973.

Basionym: *Bryum minus* H. Arnell in Dusén, 1901.

B. inclinatum fo. *minutum* H. Arnell & C. E. O. Jensen, Naturwiss. Untersuch. Sarekgebirges Schwed.-Lappl., Bot. 3(2-3): 153. 1910.

Note: listed as new combination in Podpera, Bryum Gen. Monogr. Prodr. 17: 39. 1973.

B. inclinatum var. *molleri* Podpera, Bryum Gen. Monogr. Prodr. 17: 62. 1973.

Type: Sweden. Jamtland, *Hassler*, 1909. Holotype: "H.M."

B. inclinatum fo. *neoarcticum* Podpera, Bryologist 35: 57. 1932.

Other use: *Bryum inclinatum* var. *neoarcticum* (Podpera) Podpera, 1973.

B. inclinatum var. *neoarcticum* (Podpera) Podpera, Bryum Gen. Monogr. Prodr. 17: 124. 1973.

Basionym: *Bryum inclinatum* fo. *neoarcticum* Podpera, 1932.

B. inclinatum var. *nepiomorphum* Podpera, Bryum Gen. Monogr. Prodr. 17: 94. 1973.

Type: Sweden. Jamtland, *Hassler s.n.* Holotype: "H.M."

B. inclinatum var. *nepium* Podpera, Bryum Gen. Monogr. Prodr. 17: 100. pl. 17: e-i. 1973.

Type: Sweden. Lapponia Tornensis, *Bjorkliden*, 1916. Holotype: "H.P."

B. inclinatum var. *obtusidens* (H. Arnell) Podpera, Bryum Gen. Monogr. Prodr. 17: 97. 1973.

Basionym: *Bryum obtusidens* H. Arnell, 1913.

Bryum, continued.

B. inclinatum var. *oligomerum* Podpera, Bryum Gen. Monogr. Prodr. 17: 125. 1973.
Type: Patagonia austr., Lago San Martino, *Dusén 6042*. Holotype: "H.M."

B. inclinatum subsp. *olivinicum* Podpera, Bryum Gen. Monogr. Prodr. 17: 183. pl. 33: a-d. 1973.
Type: Sweden. Jamtland, *Hassler s.n.* Holotype: "H.M."

B. inclinatum var. *omblense* Podpera, Bryum Gen. Monogr. Prodr. 17: 31. 1973.
Type: Yugoslavia. Dalmatia, Ombla, *Degen s.n.* Holotype: "H.L.D."

B. inclinatum var. *ooeides* Podpera, Bryum Gen. Monogr. Prodr. 17: 68. 1973.
Type: Norway. Christiansund, *Baur*, 1892. Holotype: "H.P."

**B. inclinatum* var. *oppalense* Podpera, Bryum Gen. Monogr. Prodr. 17: 178. 1973.
*invalid, single element not cited as holotype (Article 37.3).
Type: no element cited by author.

B. inclinatum fo. *otoeides* (Podpera) Podpera, Bryum Gen. Monogr. Prodr. 17: 49. 1973.
Basionym: *Bryum inclinatum* var. *otoeides* Podpera, 1934.

B. inclinatum var. *otoeides* Podpera, Folia Cryptog. 1(10): 132. 1934.
Other use: *Bryum inclinatum* fo. *otoeides* (Podpera) Podpera, 1973.

B. inclinatum fo. *ovalifrons* Podpera, Bryum Gen. Monogr. Prodr. 17: 52. 1973.
Type: Sweden. Jamtland, *Hassler s.n.* Holotype: "H.M. No 46/09."

**B. inclinatum* var. *ovatum* Podpera, Bryum Gen. Monogr. Prodr. 17: 34. 1973.
*invalid, single element not cited as holotype (Article 37.3).
Type: Several specimens cited but none indicated as type.

B. inclinatum var. *oviforme* Podpera, Bryum Gen. Monogr. Prodr. 17: 40. 1973.
Type: Sweden. Vastrvik, *Jäderholm*, 1908. Holotype: "H.P." Paratype cited.

B. inclinatum var. *pachymorphum* Podpera, Bryum Gen. Monogr. Prodr. 17: 103. pl. 18: a-c. 1973.
Type: Sweden. Jamtland, *Hassler*, 1910. Holotype: "H.M."

B. inclinatum var. *pachyneurum* Podpera, Bryum Gen. Monogr. Prodr. 17: 73. 1973.
Type: Norway. Trondhjem, *Hassler*, 1910. Holotype: "H.M."

B. inclinatum subsp. *paranomum* Podpera, Bryum Gen. Monogr. Prodr. 17: 173. 1973.
Type: Sweden. Lapponia Tornensis, *Jäderholm*, 1917. Holotype: "H.P."

B. inclinatum var. *parvum* (Bryhn & Ryan) Podpera, Bryum Gen. Monogr. Prodr. 17: 74. 1973.
Basionym: *Bryum parvum* Bryhn & Ryan, 1907.

B. inclinatum var. *paulii* Podpera, Bryum Gen. Monogr. Prodr. 17: 43. 1973.
Type: Czechoslovakia. Maravia, Jeseniky, 1335 m, *Paul*, 1879. Holotype: "H.Br."

B. inclinatum var. *pemphigoden* Podpera, Bryum Gen. Monogr. Prodr. 17: 64. 1973.
Type: Sweden. Jamtland, *Hassler*, 1909. Holotype: "H.M."

Bryum, continued.

**B. inclinatum* fo. *pendulum* Podpera, Bryum Gen. Monogr. Prodr. 17: 25. 1973.
*invalid, single element not cited as holotype (Article 37.3).
Type: Several specimens cited but none indicated as type.

B. inclinatum var. *petraeum* Podpera, Bryum Gen. Monogr. Prodr. 17: 178. 1973.
Type: Sweden. Angermanland, Sabra, Andholmen proper Lungon, *Arnell*. Holotype: "H.P."

B. inclinatum fo. *phaeostomum* Podpera, Bryum Gen. Monogr. Prodr. 17: 28. 1973.
Type: Sweden. Vastervik, *Jäderholm*, 1909. Holotype: "H.P." Paratype cited.

B. inclinatum subsp. *pharmacopolae* Podpera, Bryum Gen. Monogr. Prodr. 17: 162. pl. 27: x-z. 1973.
Type: Norway. Finmarken, *Baur*, 1892. Holotype: "H.P."

B. inclinatum var. *piriforme* Podpera, Bryum Gen. Monogr. Prodr. 17: 34. 1973.
Type: Sweden. Stockholm, *Hassler*, 1913. Holotype: "H.M." Paratypes cited.

B. inclinatum var. *piteanum* Podpera, Bryum Gen. Monogr. Prodr. 17: 73. 1973.
Type: Sweden. Pite Lappmark, Arjepluog, 700 m, *Flovin*, 1929. Holotype: "H.M.Holm."

B. inclinatum subfo. *planifolium* (Kindberg) Podpera, Bryum Gen. Monogr. Prodr. 17: 143. 1973.
Basionym: *Bryum planifolium* Kindberg, 1883.

B. inclinatum var. *planioperculatum* (Warnstorf) Podpera, Bryum Gen. Monogr. Prodr. 17: 40. 1973.
Basionym: *Bryum planioperculatum* Warnstorf, 1905.

B. inclinatum subsp. *planiusculum* Podpera, Bryum Gen. Monogr. Prodr. 17: 149. 1973.
Type: Sweden. Jamtland, *Hassler*, 1910. Holotype: "H.M."

B. inclinatum fo. *planum* Podpera, Bryum Gen. Monogr. Prodr. 17: 53. 1973.
Type: Sweden. Jamtland, *Hassler s.n.* Holotype: "H.M."

B. inclinatum subsp. *polycladum* (Cardot & Thériot) Podpera, Bryum Gen. Monogr. Prodr. 17: 154. 1973.
Basionym: *Bryum polycladum* Cardot & Thériot, 1904.

B. inclinatum var. *pseudograefianum* (Cardot & Thériot) Podpera, Bryum Gen. Monogr. Prodr. 17: 100. 1973.
Basionym: *Bryum pseudograefianum* Cardot & Thériot, 1906.

B. inclinatum var. *pycnorhachis* Podpera, Bryum Gen. Monogr. Prodr. 17: 80. 1973.
Type: Czechoslovakia. Slovakia: Belanske Tatry, 1500 m, *Gyoerffy*, 1910. Holotype: "H.P."

B. inclinatum subsp. *quirinorum* Podpera, Bryum Gen. Monogr. Prodr. 17: 166. pl. 29: o-p, r-s. 1973.
Type: Norway. Lofoten, *Podpera*, 1925. Holotype: "H.P."

B. inclinatum var. *rhabdiophorum* Podpera, Bryum Gen. Monogr. Prodr. 17: 66. 1973.
Type: Sweden. Angermanland, *Grapengiesser*, 1932. Holotype: "H.M.H."

Bryum, continued.

B. inclinatum fo. *rhogmoeides* Podpera, Bryum Gen. Monogr. Prodr. 17: 49. 1973.
Type: Sweden. Jamtland, *Medelius s.n.* Holotype: "H.Podp."

B. inclinatum var. *saharae* (Dixon) Podpera, Bryum Gen. Monogr. Prodr. 17: 83. 1973.
Basionym: *Bryum saharae* Dixon, 1931.

B. inclinatum fo. *scalariforme* (E. Jørgensen) Podpera, Bryum Gen. Monogr. Prodr. 17: 55. 1973.
Basionym: *Bryum scalariforme* E. Jørgensen, 1894.

B. inclinatum var. *semiovatum* Podpera, Bryum Gen. Monogr. Prodr. 17: 98. 1973.
Replaced name: *Bryum semiovatum* Bryhn & Ryan, 1907.
Blocking name: *Bryum semiovatum* Bridel, 1827.
Note: new name, based on adoption of earlier epithet (Article 72.Note 1).

B. inclinatum var. *setchellii* (Cardot & Thériot) Podpera, Bryum Gen. Monogr. Prodr. 17: 82. 1973.
Basionym: *Bryum setchellii* Cardot & Thériot, 1906.

B. inclinatum var. *simmonsii* (Bryhn & Ryan) Podpera, Bryum Gen. Monogr. Prodr. 17: 109. 1973.
Basionym: *Bryum simmonsii* Bryhn & Ryan, 1907.

B. inclinatum subsp. *skjaervoense* Podpera, Bryum Gen. Monogr. Prodr. 17: 166. 1973.
Type: Norway. Skjaervoe, *Kaurin*, 1894. Holotype: "H.L.D."

B. inclinatum var. *smardae* Podpera, Bryum Gen. Monogr. Prodr. 17: 64. 1973.
Type: Czechoslovakia. Slovakia: Tatra Minor, *Smarda*, 1934. Holotype: "H.P."

B. inclinatum var. *sorbicum* Podpera, Bryum Gen. Monogr. Prodr. 17: 37. 1973.
Type: Germany. Saxonia, Leipzig, *Stolle*, 1904. Holotype: "H.P."

B. inclinatum var. *stenolinum* Podpera, Bryum Gen. Monogr. Prodr. 17: 139. pl. 25: n-o. 1973.
Type: Sweden. Uppland, *Halle s.n.* Holotype: "H.M.H."

B. inclinatum var. *stenomorphum* Podpera, Bryum Gen. Monogr. Prodr. 17: 132. 1973.
Type: Sweden. Skane, *Moller*, 1904. Holotype: "H.M.H."

B. inclinatum fo. *stenoschisma* Podpera, Bryum Gen. Monogr. Prodr. 17: 52. 1973.
Type: Sweden. Sodermus, *Arnell*, 1920. Holotype: "H.P." Paratype cited.

B. inclinatum var. *stenotrichum* (C. Müller) Podpera, Bryum Gen. Monogr. Prodr. 17: 138. 1973.
Basionym: *Bryum stenotrichum* C. Müller, 1887.

B. inclinatum var. *stolleanum* Podpera, Bryum Gen. Monogr. Prodr. 17: 132. 1973.
Type: Germany. Saxonia, Leipzig, *Stolle s.n.* Holotype: "H.P."

B. inclinatum fo. *stramineum* Podpera, Bryum Gen. Monogr. Prodr. 17: 52. 1973.
Type: Czechoslovakia. Moravia: Jeseniky, *Paul*, 1879. Holotype: "H.Br."

Bryum, continued.

B. inclinatum var. *subacutum* (H. Arnell) Podpera, Bryum Gen. Monogr. Prodr. 17: 87. 1973.

Basionym: *Bryum subacutum* H. Arnell, 1918.

B. inclinatum var. *subfoveolatum* (Bryhn & Ryan) Podpera, Bryum Gen. Monogr. Prodr. 17: 96. 1973.

Basionym: *Bryum subfoveolatum* Bryhn & Ryan, 1907.

**B. inclinatum* fo. *sublimbatum* Podpera, Bryum Gen. Monogr. Prodr. 17: 106. 1973.

*invalid, single element not cited as holotype (Article 37.3).

Type: no element cited by author.

B. inclinatum var. *sunnanense* Podpera, Bryum Gen. Monogr. Prodr. 17: 84. 1973.

Type: Norway. N. Trondhjem, *Hassler*, 1909. Holotype: "H.M."

B. inclinatum var. *svolvaerense* Podpera, Bryum Gen. Monogr. Prodr. 17: 45. 1973.

Type: Norway. Lofoten, *Baur*, 1897. Holotype: "H.P."

B. inclinatum var. *syncleitbrum* Podpera, Bryum Gen. Monogr. Prodr. 17: 68. 1973.

Type: Sweden. Lapponia Tornensis, *Jäderholm*, 1912. Holotype: "H.P."

B. inclinatum fo. *syndesmenum* Podpera, Bryum Gen. Monogr. Prodr. 17: 94. 1973.

Type: Norway. N. Trondhjem, *Hassler s.n.* Holotype: "H.M.H."

B. inclinatum var. *synrhabdium* Podpera, Bryum Gen. Monogr. Prodr. 17: 77. 1973.

Type: Sweden. Jamtland, *Hassler s.n.* Holotype: "H.M."

**B. inclinatum* fo. *tenerum* Podpera, Bryum Gen. Monogr. Prodr. 17: 53. 1973.

*invalid, single element not cited as holotype (Article 37.3).

Type: Sweden. Three collections from Jamtland cited but none indicated as holotype.

B. inclinatum var. *terrestre* Podpera, Bryum Gen. Monogr. Prodr. 17: 107. 1973.

Replaced name: *Bryum terrestre* I. Hagen, 1901.

Note: new name, based on adoption of earlier epithet (Article 72.Note 1).

B. inclinatum var. *theodorii* Podpera, Bryum Gen. Monogr. Prodr. 17: 53. 1973, "*theodori*."

Type: Austria. Tirolia, Lechtaler Alpen, 2300 m, *Herzog*, 1939. Holotype: "H.P."

B. inclinatum var. *tornense* Podpera, Bryum Gen. Monogr. Prodr. 17: 83. 1973.

Type: Sweden. Lapponia Tornensis, *Jäderholm*, 1916. Holotype: "H.P."

B. inclinatum var. *turgidum* Podpera, Bryum Gen. Monogr. Prodr. 17: 36. 1973.

Replaced name: *Bryum turgidum* Bomansson, 1900.

Blocking name: *Bryum turgidum* Arnott, 1825 [1826?].

Note: new name, based on adoption of earlier epithet (Article 72.Note 1).

B. inclinatum var. *uber* (I. Hagen) Podpera, Bryum Gen. Monogr. Prodr. 17: 107. 1973.

Basionym: *Bryum uber* I. Hagen, 1901.

Bryum, continued.

B. inclinatum var. *vardoeense* (H. Winter) Podpera, Bryum Gen. Monogr. Prodr. 17: 178. 1973.
Basionym: *Bryum lapponicum* var. *vardoeense* H. Winter, 1909.

B. inclinatum var. *vescum* Podpera, Bryum Gen. Monogr. Prodr. 17: 65. 1973.
Type: Norway. Trondhjem, *Hassler*, 1910. Holotype: "H.M."

B. inclinatum var. *vikense* Podpera, Bryum Gen. Monogr. Prodr. 17: 101. pl. 18: u-w. 1973.
Type: Sweden. Jamtland, *Hassler s.n.* Holotype: "H.M."

B. inclinatum fo. *violascens* Podpera, Bryum Gen. Monogr. Prodr. 17: 88. 1973.
Type: Finland. Alandia, Norrholmen, *Bomansson*, 1899. Holotype: "H.L.D."
Other indicated distribution: Germany.

B. inclinatum subfo. *viridisporum* (H. Winter) Podpera, Bryum Gen. Monogr. Prodr. 17: 144. 1973.
Basionym: *Bryum archangelicum* subsp. *viridesporum* H. Winter, 1910.
Note: homonym of equal priority with *B. inclinatum* var. *viridisporum* Podpera.

B. inclinatum var. *viridisporum* Podpera, Bryum Gen. Monogr. Prodr. 17: 178. 1973.
Type: Sweden. Uppland, Laana se Begshamra, *Halle s.n.* Holotype: "H.M.H."
Note: homonym of equal priority with *B. inclinatum* subfo. *viridisporum* (H. Winter) Podpera.

B. inclinatum var. *zetterstedtii* Podpera, Bryum Gen. Monogr. Prodr. 17: 56. 1973.
Type: Norway. Finnmarken, *Zetterstedt s.n.* Holotype: "H.P."

B. inconnexum Cardot, 1900.

B. inconnexum fo. *tomentosum* (Cardot) Kuc, Rev. Bryol. Lichénol. 36: 667. 1969 [1970].
Basionym: *Bryum inconnexum* var. *tomentosum* Cardot, 1906.

B. inconnexum var. *tomentosum* Cardot, Rev. Bryol. 33: 34. 1906.
Other use: *Bryum inconnexum* fo. *tomentosum* (Cardot) Kuc, 1969 [1970].

B. indicopolymorphum Ochi, J. Fac. Educ. Tottori Univ., Nat. Sci. 34: 51. 1985.
Replaced name: *Bryum polymorphum* (Dixon) Ochi, 1972.
Blocking name: *Bryum polymorphum* (Hoppe & Hornschuch) C. J. Hartman, 1838.

B. inflexum C. Müller in Neumayer, Int. Polarforsch., Deutsch. Exped. 2: 296. 1890.
Other use: *Pohlia inflexa* (C. Müller in Neumayer) Wijk & Margadant, 1965.

B. innovans H. Crum in Mägdefrau, Nova Hedwigia 38: 58. f. 5. 1983.
Type: Colombia. Sierra Nevada de Santa Marta, S shore of "doublelake," *Mägdefrau 1201*. Holotype: MICH; isotype: M.

B. jaapianum Warnstorf, Beih. Bot. Centralbl. 16: 245. pl. 11: f. 5. 1904.
Other use: *Bryum turbinatum* subsp. *jaapianum* (Warnstorf) Podpera, 1973.

B. jaapianum var. *fuscum* Mikutowicz, Bryoth. Balt. 95. 1910.
Other use: *Bryum turbinatum* fo. *fuscum* (Mikutowicz) Podpera, 1973.

Bryum, continued.

B. jaapianum fo. *laxum* Mikutowicz, Bryoth. Balt. 391, 391a. 1909.
Other use: *Bryum turbinatum* fo. *laxum* (Mikutowicz) Podpera, 1973.

B. jailae Sapehin, Bot. Jahrb. Syst. 46(Beibl. 105): 19. pl. 1: 12. 1911.
Other use: *Bryum angustirete* fo. *jailae* (Sapehin) Savicz-Ljubitskaya, 1966.

B. jamaicense Syed, J. Bryol. 7: 314. f. 20, 26-27. 1973.
Type: Jamaica. Portland Gap, 1650 m, *Maxon*, 1926. Holotype: S-PA. Other indicated distribution: Guatemala, Mexico.
Original placement: subsect. *Trichophora*.

B. kaurinianum Warnstorf, 1882.

B. kaurinianum var. *ackermannae* G. Roth, Eur. Laubm. 2: 72. 1905.
Other use: *Bryum inclinatum* fo. *ackermannae* (G. Roth) Podpera, 1973.

B. killiasii Amann, Ber. Schweiz. Bot. Ges. 3: 66. 1893.
Other use: *Bryum inclinatum* subfo. *kiliasii* (Amann) Podpera, 1973.

B. kjellmanii H. Arnell, Ark. Bot. 15(5): 63. 1918.
Other use: *Bryum inclinatum* var. *kjellmanii* (H. Arnell) Podpera, 1973.

B. klinggraeffii W. P. Schimper in Klinggraeff, Höh. Crypt. Preuss. 81. 1858.
Other use: *Bryum radiculosum* subsp. *klinggraeffii* (W. P. Schimper in Klinggraeff) Margadant & During, 1982.

B. komagatakense Cardot, Bull. Soc. Bot. Genève, ser. 2, 1: 126. 1909.
Other use: *Bryum inclinatum* var. *komagatakense* (Cardot) Podpera, 1973.

**B. lacustre* (Weber & D. Mohr) Blandow in Sturm, 1809.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Bryum lacustre* Bridel, 1803.

B. lacustre var. *dilatatum* Podpera, Bryum Gen. Monogr. Prodr. 17: 196. 1973.
Type: Norway. Porsanger, *Kaurin*, 1894. Holotype: "H.L.D."

B. lacustre var. *flexuosum* Podpera, Bryum Gen. Monogr. Prodr. 17: 197. 1973.
Replaced name: *Bryum flexuosum* Austin, 1879.
Blocking name: *Bryum flexuosum* (Hedwig) Withering, 1801.
Note: new name, based on adoption of earlier epithet (Article 72.Note 1).

B. lacustre fo. *intermedium* (Warnstorf in H. Schmidt) Podpera, Bryum Gen. Monogr. Prodr. 17: 196. 1973.
Basionym: *Bryum lacustre* var. *intermedium* Warnstorf in H. Schmidt, 1910.

B. lacustre var. *intermedium* Warnstorf in H. Schmidt, Allg. Bot. Z. Syst. 16: 23. 1910.
Other use: *Bryum lacustre* fo. *intermedium* (Warnstorf in H. Schmidt) Podpera, 1973.

B. lacustre fo. *minutum* Podpera, Bryum Gen. Monogr. Prodr. 17: 196. 1973.
Type: Norway. Porsanger, Laxelo, *Kaurin*, 1894. Holotype: "H.L.D."

B. lacustre var. *mucronatum* Podpera, Bryum Gen. Monogr. Prodr. 17: 196. 1973.
Type: Sweden. Lapponia Torn, *Jäderholm s.n.* Holotype: "H.M."

B. lacustre fo. *phaeodon* (I. Hagen) Podpera, Bryum Gen. Monogr. Prodr. 17: 194. 1973.
Basionym: *Bryum lacustre* var. *phaeodon* I. Hagen, 1901.

Bryum, continued.

B. lacustre var. *phaeodon* I. Hagen, Tromsø Mus. Aarsh. 21-22(2): 128. 1901.
Other use: *Bryum lacustre* fo. *phaeodon* (I. Hagen) Podpera, 1973.

B. lacustre var. *praecox* Kaurin ex Podpera, Bryum Gen. Monogr. Prodr. 17: 196. 1973.
Type: Nowary. Tromsoe, *Arnell*, 1891. Holotype: "H.L.D." Other indicated distribution: Sweden.

B. laevifilum Syed, J. Bryol. 7: 293. f. 13-14. 1973.
Type: Hungary. Borsod, Bukkfennterseg, *Boros*, 1948. Holotype: S-PA. Other indicated distribution: Austria, Canada, Czechoslovakia, Italy, Sweden, Switzerland, U.S.S.R., United Kingdom (England, Scotland).
Original placement: subsect. *Trichophora*.

B. lagarocarpum Mohamed, J. Bryol. 10: 456. f. 30-31, 33. 1979.
Type: Guatemala. Totonicapan: road between Huehuetenango and Sija, 3000-3450 m, *Standley*, 1939. Holotype: F. Other indicated distribution: Mexico.

B. lagerheimii E. Jørgensen, Forh. Vidensk.-Selsk. Christiania 1894(8): 77. 1894.
Other use: *Bryum inclinatum* fo. *lagerheimii* (E. Jørgensen) Podpera, 1973.

B. languardicum H. Winter & Janzen, 1912.

B. languardicum var. *majus* Janzen, Hedwigia 52: 322. 1912.
Other use: *Bryum inclinatum* subvar. *majus* (Janzen) Podpera, 1973.

**B. lapponicum* Kaurin in E. Jørgensen, 1894.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Bryum lapponicum* (Hedwig) Dickson, 1801.

B. lapponicum var. *vardoeense* H. Winter, Hedwigia 49: 333. pl. 9: f. 6. 1909.
Other use: *Bryum inclinatum* var. *vardoeense* (H. Winter) Podpera, 1973.

B. latirete (Dixon) Ochi, J. Hattori Bot. Lab. 35: 67. 1972.
Basionym: *Anomobryum latirete* Dixon, 1938.

B. laxelimbatum Hampe ex Ochi, J. Jap. Bot. 43: 112. 1968.
Type: India. Sikkim, [*Kurz*] *2382*. Holotype: BM. The protologue indicates that Kurz is probably the collector.
Other use: *Rhodobryum laxelimbatum* (Hampe ex Ochi) Iwatsuki & T. Koponen, 1972.

**B. laxifolium* Bescherelle, Ann. Sci. Nat. Bot., ser. 5, 18: 216. 1873.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Bryum laxifolium* Lindberg, 1867.
Correct name: *Bryum chrysophyllum* Ochi, 1973.

B. laxirete Bryhn & Ryan, Rep. Second Norweg. Arctic Exped. "Fram" 1898-1902, Mosses 2(11): 75. 1907.
Other use: *Bryum microimbricatum* Ochi, 1982, *Bryum arcticum* subsp. *laxirete* (Bryhn & Ryan) Podpera, 1973.

B. lescurianum Sullivant, Mem. Amer. Acad. Arts, n.s. 4: 171. 1849.
Other use: *Pohlia lescuriana* (Sullivant) Ochi, 1968.

B. leucobasis Kindberg, Rev. Bryol. 36: 99. 1909.
Other use: *Bryum weigelii* fo. *leucobasis* (Kindberg) Pilous in Podpera, 1973.

Bryum, continued.

B. leucolomatum C. Müller & Kindberg in Macoun, Cat. Canad. Pl., Musci 123. 1892.

Other use: *Bryum bimum* fo. *leucolomatum* (C. Müller & Kindberg in Macoun) Podpera, 1973.

**B. liliputanum* Bryhn & Ryan, Rep. Second Norweg. Arctic Exped. "Fram" 1898-1902, Mosses 2(11): 78. 1907.

*illegitimate, later homonym (Article 64.1).

Earlier name: *Bryum liliputanum* C. Müller, 1899.

Other use: *Bryum inclinatum* var. *liliputanum* Podpera, 1973.

B. limbatum C. Müller, 1851.

B. limbatum var. *cubense* Thériot & Bizot, Bull. Mens. Soc. Linn. Soc. Bot. Lyon 34: 313. 1965.

Type: Cuba. Loma del Gato, *Hioram 11841*. Holotype: herb. Thériot.

B. lipsiense I. Hagen, Kongel. Norske Vidensk. Selsk. Skr. (Trondheim) 1904(1): 5. 1904.

Other use: *Bryum lisae* var. *lipsiense* (I. Hagen) Margadant, 1972.

B. lisae De Notaris, 1866.

B. lisae var. *alpicola* (Brotherus) Margadant, Lindbergia 1: 125. 1972.

Basionym: *Bryum alpicola* Brotherus, 1929.

B. lisae var. *australe* (Cardot) Margadant, Lindbergia 1: 125. 1972.

Basionym: *Bryum cirrhatum* var. *australe* Cardot, 1905.

B. lisae subsp. *calcicola* (H. Arnell) Margadant, Lindbergia 1: 125. 1972.

Basionym: *Bryum calcicola* H. Arnell, 1898.

B. lisae var. *cinnamomeum* (Podpera in Herzog) Margadant, Lindbergia 1: 125. 1972.

Basionym: *Bryum cirrhatum* subsp. *cinnamomeum* Podpera in Herzog, 1944.

B. lisae subsp. *cirrhatum* (Hübener) Margadant, Lindbergia 1: 125. 1972.

Basionym: *Bryum caespiticium* var. *cirrhatum* Hübener, 1833.

B. lisae var. *cuspidatum* (Bruch & W. P. Schimper) Margadant, Lindbergia 1: 125. 1972.

Basionym: *Bryum bimum* var. *cuspidatum* Bruch & W. P. Schimper, 1839.

B. lisae var. *elwendicum* (Fehlner) Margadant, Lindbergia 1: 125. 1972.

Basionym: *Bryum elwendicum* Fehlner, 1884.

B. lisae var. *flexisetum* (Podpera) Margadant, Lindbergia 1: 125. 1972.

Basionym: *Bryum cirrhatum* subsp. *flexisetum* Podpera, 1954.

B. lisae var. *fuscum* (Lindberg) Margadant, Lindbergia 1: 125. 1972.

Basionym: *Bryum fuscum* Lindberg, 1884.

B. lisae var. *lipsiense* (I. Hagen) Margadant, Lindbergia 1: 125. 1972.

Basionym: *Bryum lipsiense* I. Hagen, 1904.

B. lisae var. *microcarpum* (Warnstorf) Margadant, Lindbergia 1: 125. 1972.

Basionym: *Bryum cirrhatum* var. *microcarpum* Warnstorf, 1905.

B. lisae var. *misandrum* (I. Hagen) Margadant, Lindbergia 1: 126. 1972.

Basionym: *Bryum misandrum* I. Hagen, 1901.

B. lisae var. *mitaviense* (Mikutowicz) Margadant, Lindbergia 1: 126. 1972.

Basionym: *Bryum mitaviense* Mikutowicz, 1910.

Bryum, continued.

B. lisae var. *moenkemeyeri* (I. Hagen) Margadant, Lindbergia 1: 126. 1972.
Basionym: *Bryum moenkemeyeri* I. Hagen, 1905.

B. lisae var. *noricum* (Podpera in Herzog) Margadant, Lindbergia 1: 126. 1972.
Basionym: *Bryum cirrhatum* subsp. *noricum* Podpera in Herzog, 1944.

B. lisae var. *pallidum* (Amann) Margadant, Lindbergia 1: 126. 1972.
Basionym: *Bryum cirrhatum* subsp. *pallidum* Amann, 1918.

B. lisae var. *praecox* (Warnstorf) Margadant, Lindbergia 1: 126. 1972.
Basionym: *Bryum praecox* Warnstorf, 1899.

B. lisae var. *ruedianum* (Amann) Margadant, Lindbergia 1: 126. 1972.
Basionym: *Bryum ruedianum* Amann, 1918.

B. lisae subsp. *sarekense* (H. Arnell & C. E. O. Jensen) Margadant, Lindbergia 1: 125. 1972.
Basionym: *Bryum sarekense* H. Arnell & C. E. O. Jensen, 1910.

B. lisae var. *saxatile* (I. Hagen) Margadant, Lindbergia 1: 126. 1972.
Basionym: *Bryum saxatile* I. Hagen, 1901.

B. lisae var. *saxonicum* (I. Hagen) Margadant, Lindbergia 1: 126. 1972.
Basionym: *Bryum saxonicum* I. Hagen, 1905.

B. lisae var. *subglobosum* (Schliephacke) Margadant, Lindbergia 1: 126. 1972.
Basionym: *Bryum subglobosum* Schliephacke, 1888.

B. lisae var. *sysphinctum* (Limpricht) Margadant, Lindbergia 1: 126. 1972.
Basionym: *Bryum sysphinctum* Limpricht, 1883.

B. lisae var. *tardum* (Bomansson) Margadant, Lindbergia 1: 126. 1972.
Basionym: *Bryum tardum* Bomansson, 1903.

B. lisae var. *tauriscorum* (Kern) Margadant, Lindbergia 1: 126. 1972.
Basionym: *Bryum cirrhatum* var. *tauriscorum* Kern, 1908.

B. lisae var. *venustum* (Bomansson) Margadant, Lindbergia 1: 126. 1972.
Basionym: *Bryum venustum* Bomansson, 1903.

B. lonchocaulon C. Müller, Flora 58: 93. 1875.
Other use: *Bryum bimum* var. *lonchocaulon* (C. Müller) Podpera, 1973.

**B. longicolle* Cardot, Rev. Bryol. 36: 114. 1909.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Bryum longicolle* (Hedwig) Swartz, 1801.
Other use: *Bryum pallens* subsp. *longicolle* Podpera, 1973.

B. longirostratum H. Arnell, 1918.
Other use: *Bryum pendulum* subsp. *longirostratum* (H. Arnell) Podpera, 1973.

B. lowii Kindberg, Rev. Bryol. 34: 91. 1907.
Other use: *Bryum cryophilum* subsp. *lowii* (Kindberg) Podpera, 1973.

**B. lutescens* Bomansson, Rev. Bryol. 24: 1. 1897.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Bryum lutescens* Dickson, 1801.
Other use: *Bryum pallens* fo. *lutescens* Podpera, 1973.

Bryum, continued.

**B. macounii* Kindberg, Rev. Bryol. 36: 100. 1909.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Bryum macounii* Austin, 1877.
Other use: *Bryum inclinatum* fo. *macounii* Podpera, 1973.

B. madurense (Dixon & Potier de la Varde) Ochi, J. Hattori Bot. Lab. 35: 67. 1972.
Basionym: *Rhodobryum madurense* Dixon & Potier de la Varde, 1930.

B. marginatum (Dixon & Badhwar) Ochi, J. Hattori Bot. Lab. 35: 67. 1972.
Basionym: *Anomobryum marginatum* Dixon & Badhwar, 1938.

B. maritimum Bomansson, 1897.

B. maritimum subsp. *agattuense* (Philibert) Podpera, Bryum Gen. Monogr. Prodr. 17: 253. 1973.
Basionym: *Bryum agattuense* Philibert, 1901.

B. maritimum fo. *dioicum* (H. Arnell in E. Bauer) Podpera, Bryum Gen. Monogr. Prodr. 17: 252. 1973.
Basionym: *Bryum maritimum* var. *dioicum* H. Arnell in E. Bauer, 1909.

B. maritimum var. *dioicum* H. Arnell in E. Bauer, Bryoth. Eur. 8: 375. 1909.
Other use: *Bryum maritimum* fo. *dioicum* (H. Arnell in E. Bauer) Podpera, 1973.

**B. maritimum* var. *epicamptum* Podpera, Bryum Gen. Monogr. Prodr. 17: 252. 1973.
*invalid, single element not cited as holotype (Article 37.3).
Type: Several specimens cited but none indicated as holotype.

B. mayrii Brotherus, Hedwigia 38: 218. 1899.
Other use: *Bryum inclinatum* var. *mayrii* (Brotherus) Podpera, 1973.

B. meesioides Kindberg in Macoun, Bull. Torrey Bot. Club 16: 95. 1889.
Other use: *Bryum pallens* fo. *meesioides* (Kindberg in Macoun) Podpera, 1973.

B. melanodon Bridel, Bryol. Univ. 1: 845. 1826.
Other use: *Pohlia melanodon* (Bridel) A. J. Shaw, 1981 [1982].

B. melvilleanum C. Müller, Syn. Musc. Frond. 1: 267. 1848.
Other use: *Bryum pendulum* var. *melvilleanum* (C. Müller) Podpera, 1973.

B. mendax Podpera, Bryum Gen. Monogr. Prodr. 17: 227. 1973.
Type: Sweden. Lapponia Tornensis, *Jäderholm*, 1912. Holotype: "H.P."

**B. micans* Limpricht, 1883.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Bryum micans* Mitten, 1859.

B. micans var. *liberum* H. Winter, Hedwigia 49: 322. 1910.
Other use: *Bryum arcticum* var. *liberum* (H. Winter) Podpera, 1973.

B. microcalophyllum Philibert, Rev. Bryol. 26: 13. 1899.
Other use: *Bryum calophyllum* subsp. *microcalophyllum* (Philibert) Podpera, 1973.

B. microimbricatum Ochi, J. Fac. Educ. Tottori Univ., Nat. Sci. 31: 16. 1982.
Replaced name: *Anomobryum laxirete* Cardot & Brotherus, 1923.
Blocking name: *Bryum laxirete* Bryhn & Ryan, 1907.

Bryum, continued.

B. micronitidum Ochi, J. Fac. Educ. Tottori Univ., Nat. Sci. 29: 119. f. 34. 1980.
Type: Bolivia. La Paz: Larecaja, vicinis Sorata, ripis rivi de Challasuyo, 2700 m, *Mandon 1661*. Holotype: BM.
Original placement: subgen. *Bryum*.

B. minnesotense Cardot & Thériot in Holzinger, Minnesota Bot. Stud. 3: 19. pl. 20: f. 1. 1903.
Other use: *Bryum pendulum* fo. *minnesotense* (Cardot & Thériot in Holzinger) Podpera, 1973.

B. minus H. Arnell in Dusén, Bih. Kongl. Svenksa Vetensk.-Akad. Handl. 27 Afd. 3(1): 37. f. a-d. pl. 2: 6-7. 1901.
Other use: *Bryum inclinatum* var. *minus* (H. Arnell in Dusén) Podpera, 1973.

B. misandrum I. Hagen, Tromsø Mus. Aarsh. 21-22(2): 178. 1901.
Other use: *Bryum lisae* var. *misandrum* (I. Hagen) Margadant, 1972.

B. mitaviense Mikutowicz, Bryoth. Balt. 94. 1910.
Other use: *Bryum lisae* var. *mitaviense* (Mikutowicz) Margadant, 1972.

B. moei W. P. Schimper, Syn. Musc. Eur. (ed. 2) 2: 417. 1876.
Other use: *Bryum algovicum* var. *moei* (W. P. Schimper) Margadant, 1972.

B. moei subsp. *angustifolium* Amann, Rev. Bryol. 20: 43. 1893.
Other use: *Bryum algovicum* var. *angustifolium* (Amann) Margadant, 1972.

B. moei fo. *zetterstedtii* Podpera, Bryum Gen. Monogr. Prodr. 17: 266. 1973.
Type: Norway. Bodo, *Zetterstedt*, 1868. Holotype: "H.L.D."

B. moenkemeyeri I. Hagen, Kongel. Norske Vidensk. Selsk. Skr. (Trondheim) 1904(1): 8. 1905.
Other use: *Bryum lisae* var. *moenkemeyeri* (I. Hagen) Margadant, 1972.

B. molliusculum Podpera, Bryum Gen. Monogr. Prodr. 17: 201. 1973.
Type: Sweden. Jamtland, *Hassler*, 1908. Holotype: "H.M."

B. myliusii Hesselbo, Meddel. Grønland 43: 174. f. 5-8. 1910.
Other use: *Bryum purpurascens* subsp. *myliusii* (Hesselbo) Podpera, 1973.

B. nagasakense Brotherus, 1899.

B. nagasakense var. *laxifolium* Cardot, Bull. Soc. Bot. Genève, ser. 2, 1: 128. 1909.
Other use: *Bryum capillare* var. *laxifolium* (Cardot) Iwatsuki & Noguchi, 1973.

B. nanoapiculatum Ochi & Kürschner, Nova Hedwigia 47: 359. f. 1. 1988.
Type: Yemen Arab Republic. Kaukaban, en descendant vers Shibban, 2800 m, *Champagne NY.01*. Holotype: B; isotypes: herb. Frey, herb. Kurschner, herb. Ochi.

B. neelgheriense Montagne in C. Müller, 1848.

B. neelgheriense var. *wichurae* (Brotherus) Mohamed, J. Bryol. 10: 419. 1979.
Basionym: *Bryum wichurae* Brotherus, 1899.

B. neodamense Itzigsohn in C. Müller, 1848.

B. neodamense fo. *cyclophylloides* (Mikutowicz) Podpera, Bryum Gen. Monogr. Prodr. 16: 56. 1973.
Basionym: *Bryum neodamense* var. *cyclophylloides* Mikutowicz, 1909.

Bryum, continued.

B. neodamense var. *cyclophylloides* Mikutowicz, Bryoth. Balt. 92. 1909.
Other use: *Bryum neodamense* fo. *cyclophylloides* (Mikutowicz) Podpera, 1973.

B. neodamense fo. *elongatum* (Mikutowicz) Podpera, Bryum Gen. Monogr. Prodr. 16: 56. 1973.
Basionym: *Bryum neodamense* var. *elongatum* Mikutowicz, 1909.

B. neodamense var. *elongatum* Mikutowicz, Bryoth. Balt. 92. 1909.
Other use: *Bryum neodamense* fo. *elongatum* (Mikutowicz) Podpera, 1973.

B. neodamense fo. *fragile* (Bryhn) Podpera, Bryum Gen. Monogr. Prodr. 16: 56. 1973.
Basionym: *Bryum neodamense* var. *fragile* Bryhn, 1907.

B. neodamense var. *fragile* Bryhn, Nyt Mag. Naturvidensk. 45: 120. 1907.
Other use: *Bryum neodamense* fo. *fragile* (Bryhn) Podpera, 1973.

B. neodamense var. *gonoi* (Brotherus ex Cardot) Podpera, Bryum Gen. Monogr. Prodr. 16: 61. 1973.
Basionym: *Bryum gonoi* Brotherus ex Cardot, 1909.

B. neodamense fo. *immarginatum* (Amann) Podpera, Bryum Gen. Monogr. Prodr. 16: 55. 1973.
Basionym: *Bryum neodamense* var. *immarginatum* Amann, 1923.

B. neodamense var. *immarginatum* Amann, Bull. Soc. Vaud. Sci. Nat. 55: 140. 1923.
Other use: *Bryum neodamense* fo. *immarginatum* (Amann) Podpera, 1973.

B. neodamense fo. *nervicaudatum* (Amann) Podpera, Bryum Gen. Monogr. Prodr. 16: 55. 1973.
Basionym: *Bryum neodamense* var. *nervicaudatum* Amann, 1921.

B. neodamense var. *nervicaudatum* Amann, Rev. Bryol. 48: 60. 1921.
Other use: *Bryum neodamense* fo. *nervicaudatum* (Amann) Podpera, 1973.

B. neodamense fo. *pilati* Podpera, Veröff. Geobot. Inst. Rübel Zürich 1: 250. 1924.
Other use: *Bryum turbinatum* fo. *pilati* (Podpera) Podpera, 1973.

B. neodamense var. *simulans* (Brotherus) Podpera, Bryum Gen. Monogr. Prodr. 16: 60. 1973.
Basionym: *Bryum simulans* Brotherus, 1929.

**B. neodamense* fo. *submersum* Podpera, Bryum Gen. Monogr. Prodr. 16: 56. 1973.
*invalid, single element not cited as holotype (Article 37.3).
Type: Two collections cited, neither indicated as holotype.

B. neodamense var. *subneodamense* (Kindberg) Podpera, Bryum Gen. Monogr. Prodr. 16: 57. 1973.
Basionym: *Bryum subneodamense* Kindberg, 1905.

B. notarisii Mitten, J. Proc. Linn. Soc., Bot. 8: 3. 1864.
Other use: *Brachymenium notarisii* (Mitten) A. J. Shaw, 1987.

**B. nudum* Arnold, Rev. Bryol. 25: 7. 1898.
*illegitimate, later homonym (Article 64.1).

Bryum nudum Arnold, continued.
Earlier name: *Bryum nudum* Dickson, 1801.
Correct name: *Bryum enisseense* Savicz-Ljubitskaya, 1966.
B. obtusidens H. Arnell, Ark. Bot. 13(2): 42. 1913.
Other use: *Bryum inclinatum* var. *obtusidens* (H. Arnell) Podpera, 1973.
B. ochii (T. Koponen & Norris) Ochi, J. Fac. Educ. Tottori Univ., Nat. Sci. 34: 49. 1985.
Basionym: *Anomobryum ochii* T. Koponen & Norris, 1984.
B. oeneum Blytt ex Bruch & W. P. Schimper in B.S.G., 1846, "*aeneum*."
B. oeneum var. *subelimabatum* Bryhn & Ryan, Rep. Second Norweg. Arctic Exped. "Fram" 1898-1902, Mosses 2(11): 97. 1907.
Other use: *Bryum rutilans* var. *subelimbatum* (Bryhn & Ryan) Podpera, 1973.
B. oerstedianum C. Müller, Syn. Musc. Frond. 2: 583. 1851.
Other use: *Pohlia oerstediana* (C. Müller) A. J. Shaw, 1982.
B. opdalense Limpricht, 1883.
B. opdalense fo. *carneum* (Bryhn & Ryan) Podpera, Bryum Gen. Monogr. Prodr. 17: 224. 1973.
Basionym: *Bryum opdalense* var. *carneum* Bryhn & Ryan, 1907.
B. opdalense var. *carneum* Bryhn & Ryan, Rep. Second Norweg. Arctic Exped. "Fram" 1898-1902, Mosses 2(11): 91. 1907.
Other use: *Bryum opdalense* fo. *carneum* (Bryhn & Ryan) Podpera, 1973.
B. opdalense fo. *minimum* Kaurin ex Podpera, Bryum Gen. Monogr. Prodr. 17: 224. 1973.
Type: Norway. Opdal, Skaret, *Kaurin s.n.* Holotype: "H.M."
B. opsicarpum Amann, Bull. Soc. Vaud. Sci. Nat. 55: 137. 154. 1923.
Other use: *Bryum pallens* subsp. *opsicarpum* (Amann) Podpera, 1973.
B. origanum Boswell, Naturalist (Hull), n.s., 5: 34. 1879.
Other use: *Bryum pallens* fo. *microphyllum* Podpera, 1973.
B. orthodontum Palisot de Beauvois, Prodr. Aethéogam. 48. 1805, "*orthoodontum*."
Other use: *Tayloria orthodonta* (Palisot de Beauvois) Wijk & Margadant, 1968.
**B. ovatum* Juratzka, 1882.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Bryum ovatum* (Hedwig) Dickson ex Withering, 1801.
B. ovatum var. *uncinatulum* Latzel, Hedwigia 66: 142. 1926.
Other use: *Bryum pseudotriquetrum* fo. *uncinatulum* (Latzel) Podpera, 1973.
B. pallens Swartz, 1801.
B. pallens fo. *abbreviatum* (W. P. Schimper) Podpera, Bryum Gen. Monogr. Prodr. 16: 178. 1973.
Basionym: *Bryum pallens* var. *abbreviatum* W. P. Schimper, 1860.
B. pallens var. *abbreviatum* W. P. Schimper, Syn. Musc. Eur. 377. 1860.
Other use: *Bryum pallens* fo. *abbreviatum* (W. P. Schimper) Podpera, 1973.
B. pallens subsp. *acutiusculum* (C. Müller) Podpera, Bryum Gen. Monogr. Prodr. 16: 207. 1973.
Basionym: *Bryum acutiusculum* C. Müller, 1887.

Bryum, continued.

B. pallens fo. *adnexum* Podpera, Bryum Gen. Monogr. Prodr. 16: 192. 1973.
Type: Sweden. Lapponia Tornensis, *Jäderholm*, 1917. Holotype: "H.P." Paratype cited.

B. pallens subsp. *amoenum* (Brotherus) Podpera, Bryum Gen. Monogr. Prodr. 16: 196. 1973.
Basionym: *Bryum amoenum* Brotherus, 1898.

B. pallens fo. *angustifolium* (Breidler) Podpera, Bryum Gen. Monogr. Prodr. 16: 168. 1973.
Basionym: *Bryum pallens* var. *angustifolium* Breidler, 1891.

B. pallens var. *angustifolium* Breidler, Mitt. Naturwiss. Vereins Steiermark 28: 134. 1891.
Other use: *Bryum pallens* fo. *angustifolium* (Breidler) Podpera, 1973.

B. pallens fo. *arcuatocylindricum* (Podpera) Podpera, Bryum Gen. Monogr. Prodr. 16: 173. 1973.
Basionym: *Bryum pallens* subsp. *arcuatocylindricum* Podpera, 1901.

B. pallens subsp. *arcuatocylindricum* Podpera, Rozpr. Ceské Akad. Ved, Tr. 2, Vedy Mat. Prír. 10(2): 25. pl. 5: f. 6. 1901.
Other use: *Bryum pallens* fo. *arcuatocylindricum* (Podpera) Podpera, 1973.

**B. pallens* fo. *arcuatum* Warnstorf, Krypt.-Fl. Brandenburg, Laubm. 2: 499. 1905.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Bryum pallens* var. *arcuatum* W. P. Schimper, 1860.
Correct name: *Bryum pallens* fo. *eucamptum* Podpera, 1973.

**B. pallens* fo. *arcuatum* (W. P. Schimper) Podpera, Bryum Gen. Monogr. Prodr. 16: 172. 1973.
*illegitimate, later homonym in same species (Article 64.4).
Basionym: *Bryum pallens* var. *arcuatum* W. P. Schimper, 1860.
Earlier name: *Bryum pallens* fo. *arcuatum* Warnstorf, 1905.

B. pallens var. *arcuatum* W. P. Schimper, Syn. Musc. Eur. 377. 1860.
Other use: *Bryum pallens* fo. *arcuatum* (W. P. Schimper) Podpera, 1973.

B. pallens subfo. *aristatum* Podpera, Bryum Gen. Monogr. Prodr. 16: 169. 1973.
Type: Czechoslovakia. Slovakia: Tatra Magna, *Podpera s.n.* Holotype: "H.P." Paratype cited.

B. pallens fo. *aurantiacum* Podpera, Bryum Gen. Monogr. Prodr. 16: 174. 1973.
Type: Czechoslovakia. Serbia: Vlasina, *Podpera s.n.* Holotype: "H.P."

B. pallens fo. *borosii* Podpera, Bryum Gen. Monogr. Prodr. 16: 181. 1973.
Type: Hungary. Borod, *Boros s.n.* Holotype: "H.P." Paratypes cited.

**B. pallens* fo. *brachycarpum* Podpera, Bryum Gen. Monogr. Prodr. 16: 171. 1973.
*invalid, single element not cited as holotype (Article 37.3).
Type: Several collections cited, but none indicated as holotype.

B. pallens fo. *brachynema* Podpera, Bryum Gen. Monogr. Prodr. 16: 170. 1973.
Type: Czechoslovakia. Tatra Magna, *Podpera s.n.* Holotype: "H.P."

Bryum, continued.

**B. pallens* fo. *brevicollum* Podpera, Bryum Gen. Monogr. Prodr. 16: 187. 1973.
*invalid, single element not cited as holotype (Article 37.3).
Type: Several collections cited, none indicated as holotype.

B. pallens fo. *callicarpum* (Amann) Podpera, Bryum Gen. Monogr. Prodr. 16: 170. 1973.
Basionym: *Bryum callicarpum* Amann, 1918.

B. pallens subsp. *camptocarpum* (Cardot & Thériot) Podpera, Bryum Gen. Monogr. Prodr. 16: 219. 1973.
Basionym: *Bryum camptocarpum* Cardot & Thériot, 1904.

B. pallens subsp. *carpaticola* Podpera, Bryum Gen. Monogr. Prodr. 16: 203. pl. 25: v-z. 1973.
Type: Czechoslovakia. Choc, *Limpricht*, 1874. Holotype: "H.L.-D."

B. pallens subsp. *catervarium* (I. Hagen) Podpera, Bryum Gen. Monogr. Prodr. 16: 209. 1973.
Basionym: *Bryum catervarium* I. Hagen, 1904.

B. pallens fo. *cavernicola* Podpera, Bryum Gen. Monogr. Prodr. 16: 181. 1973.
Type: Hungary. Com. Esztergom, 222 m, *Boros 847*. Holotype: "H.P."

B. pallens subsp. *cladautoicum* Podpera, Bryum Gen. Monogr. Prodr. 16: 219. 1973.
Type: Norway. Trondhjem, *Hassler s.n.* Holotype: "H.M." Paratypes cited.

B. pallens fo. *claviforme* Podpera, Bryum Gen. Monogr. Prodr. 16: 188. 1973.
Type: Czechoslovakia. Belanske tatry, 2148 m, *Smarda s.n.* Holotype: "H.P." Paratypes cited.

B. pallens subsp. *conditum* (R. S. Williams) Podpera, Bryum Gen. Monogr. Prodr. 16: 197. 1973.
Basionym: *Bryum conditum* R. S. Williams, 1901.

B. pallens subfo. *cratopleurum* Podpera, Bryum Gen. Monogr. Prodr. 16: 169. 1973.
Type: Czechoslovakia. Moravia: Jeseniky, *Schenk s.n.* Holotype: "H.P."

B. pallens fo. *cryptarum* Podpera, Bryum Gen. Monogr. Prodr. 16: 181. 1973.
Type: Czechoslovakia. Hranice, collector not indicated by author. Herbarium not indicated by author.
Note: valid, by reference to earlier detail of the type specimen (Article 37.3).

B. pallens subsp. *densissimum* Podpera, Bryum Gen. Monogr. Prodr. 16: 202. 1973.
Type: Roumania. Transsilvania, *Boros*, 1943. Holotype: "H.P."

B. pallens fo. *distantifolium* (Cardot & Thériot) Podpera, Bryum Gen. Monogr. Prodr. 16: 170. 1973.
Basionym: *Bryum distantifolium* Cardot & Thériot, 1904.

B. pallens subsp. *drepanocarpum* (Philibert ex Cardot & Thériot) Podpera, Bryum Gen. Monogr. Prodr. 16: 194. 1973.
Basionym: *Bryum drepanocarpum* Philibert ex Cardot & Thériot, 1902.

B. pallens var. *elatum* Venturi, Musc. Trentino 72. 1899.
Other use: *Bryum pallens* fo. *longicervix* Podpera, 1973.

Bryum, continued.

B. pallens fo. *elicatum* Podpera, Bryum Gen. Monogr. Prodr. 16: 186. 1973.
Type: Austria. Hohe Tauern, 1300 m, *Loeske*, 1903. Holotype: "H.Ls."

B. pallens fo. *epseusmenum* Podpera, Bryum Gen. Monogr. Prodr. 16: 212. 1973.
Type: Norway. Finmarkens amt Kistrand, *Ryan s.n.* Holotype: "H.P."

B. pallens fo. *ernestii* (E. Bauer) Podpera, Bryum Gen. Monogr. Prodr. 16: 192. 1973.
Basionym: *Bryum ernestii* E. Bauer, 1931.

**B. pallens* fo. *eucamptum* Podpera, Bryum Gen. Monogr. Prodr. 16: 188. 1973.
*illegitimate, type of earlier name included (Article 63.1).
Correct name: *Bryum pallens* fo. *arcuatum* Warnstorf, 1905.

B. pallens fo. *eumeces* Podpera, Bryum Gen. Monogr. Prodr. 16: 188. 1973.
Type: Switzerland. Thusis, 900 m, *Podpera s.n.* Holotype: "H.P." Paratype cited.

B. pallens fo. *euryphyllum* (D. Jones) Podpera, Bryum Gen. Monogr. Prodr. 16: 168. 1973.
Basionym: *Bryum pallens* var. *euryphyllum* D. Jones, 1917.

B. pallens var. *euryphyllum* D. Jones, J. Bot. 55: 266. pl. 549. 1917.
Other use: *Bryum pallens* fo. *euryphyllum* (D. Jones) Podpera, 1973.

B. pallens subsp. *exstans* (Mitten) Podpera, Bryum Gen. Monogr. Prodr. 16: 207. 1973.
Basionym: *Bryum exstans* Mitten, 1859.

B. pallens var. *filamentosum* Mikutowicz, Bryoth. Balt. 105. 1910.
Other use: *Bryum bimum* fo. *filamentosum* (Mikutowicz) Podpera, 1973.

B. pallens var. *finmarkicum* (Kaurin in E. Jørgensen) Podpera, Bryum Gen. Monogr. Prodr. 16: 190. 1973.
Basionym: *Bryum finmarkicum* Kaurin in E. Jørgensen, 1894.

B. pallens fo. *fragilicaule* Warnstorf ex Podpera, Bryum Gen. Monogr. Prodr. 16: 178. 1973.
Type: Switzerland. Unter-Walden p. Engelberg, *Baur*, 1893. Holotype: "H.P."

B. pallens subsp. *freibergii* Podpera, Bryum Gen. Monogr. Prodr. 16: 215. 1973.
Type: Italy. Giglio, *Freiberg*, 1933. Holotype: "H.Fr."

B. pallens fo. *gracile* Podpera, Bryum Gen. Monogr. Prodr. 16: 175. 1973.
Type: Czechoslovakia. Bohemia: Mukalov, *Velenovsky s.n.* Holotype: "H.P." Paratypes cited.

B. pallens fo. *haematodes* Podpera, Bryum Gen. Monogr. Prodr. 16: 173. 1973.
Type: Czechoslovakia. Slovakia: Tatra Magna, 1700-1900 m, *Gyoerffy s.n.* Holotype: "H.P."

B. pallens fo. *haematophyllum* (Kindberg in Macoun) Podpera, Bryum Gen. Monogr. Prodr. 16: 180. 1973.
Basionym: *Bryum haematophyllum* Kindberg in Macoun, 1892.

B. pallens fo. *haematostomum* Podpera, Bryum Gen. Monogr. Prodr. 16: 189. 1973.
Type: Norway. Trondhjem, *Hassler s.n.* Holotype: "H.M."

Bryum, continued.

**B. pallens* subsp. *ivarii* Podpera, Bryum Gen. Monogr. Prodr. 16: 219. pl. 29: a-f. 1973.
*invalid, single element not cited as holotype (Article 37.3).
Type: Norway. Kaafjord, *Soderberg s.n.* Herbaria: "H.Sod., H.P."

B. pallens fo. *lamproeides* Podpera, Bryum Gen. Monogr. Prodr. 16: 172. 1973.
Type: Sweden. Jamtland, *Hassler s.n.* Holotype: "H.M.Holm."

B. pallens subsp. *laurerii* Podpera, Bryum Gen. Monogr. Prodr. 16: 210. 1973.
Type: Germany. Pomerania, *Laurer*, 1850. Holotype: "H.P."

B. pallens subfo. *laxum* Podpera, Bryum Gen. Monogr. Prodr. 16: 170. 1973.
Type: Sweden. Lappon, Torn, *Jäderholm s.n.* Holotype: "H.M."

B. pallens fo. *lonchoneurum* Podpera, Bryum Gen. Monogr. Prodr. 16: 189. 1973.
Type: Sweden. Vakkejokk, *Jäderholm s.n.* Holotype: "M." Paratype cited.

B. pallens fo. *longicervix* Podpera, Bryum Gen. Monogr. Prodr. 16: 187. 1973.
Replaced name: *Bryum pallens* var. *elatum* Venturi, 1899.

**B. pallens* subsp. *longicolle* Podpera, Bryum Gen. Monogr. Prodr. 16: 207. 1973.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Bryum pallens* var. *longicollum* T. Jensen, 1872.
Replaced name: *Bryum longicolle* Cardot, 1909.
Note: new name, based on adoption of earlier epithet (Article 72.Note 1).

B. pallens var. *longicollum* T. Jensen, Bot. Tidsskr. 1: 258. 1872.
Other use: *Bryum pallens* fo. *macrotrachelon* Podpera, 1973.

B. pallens fo. *longisetum* Podpera, Bryum Gen. Monogr. Prodr. 16: 170. 1973.
Type: Czechoslovakia. Serbia: Vlasina, *Podpera s.n.* Holotype: "H.P." Paratypes cited.

**B. pallens* fo. *lutescens* Podpera, Bryum Gen. Monogr. Prodr. 16: 192. 1973.
*illegitimate, later homonym in same species (Article 64.4).
Earlier name: *Bryum pallens* var. *lutescens* (Brotherus) C. E. O. Jensen in Weimarck, 1937.
Replaced name: *Bryum lutescens* Bomansson, 1897.
Note: new name, based on adoption of earlier epithet (Article 72.Note 1).

B. pallens fo. *macrocarpum* (Warnstorf) Podpera, Bryum Gen. Monogr. Prodr. 16: 175. 1973.
Basionym: *Bryum pallens* var. *macrocarpum* Warnstorf, 1905.

B. pallens var. *macrocarpum* Warnstorf, Krypt.-Fl. Brandenburg, Laubm. 2: 498. 1905.
Other use: *Bryum pallens* fo. *macrocarpum* (Warnstorf) Podpera, 1973.

B. pallens fo. *macrotrachelon* Podpera, Bryum Gen. Monogr. Prodr. 16: 173. 1973.
Replaced name: *Bryum pallens* var. *longicollum* T. Jensen, 1872.

B. pallens fo. *meesioides* (Kindberg in Macoun) Podpera, Bryum Gen. Monogr. Prodr. 16: 171. 1973, "*meesoides*."
Basionym: *Bryum meesioides* Kindberg in Macoun, 1889.

Bryum, continued.

B. pallens fo. *microphyllum* Podpera, Bryum Gen. Monogr. Prodr. 16: 180. 1973.
Replaced name: *Bryum origanum* Boswell, 1879.

B. pallens var. *microtatum* Podpera, Bryum Gen. Monogr. Prodr. 16: 194. 1973.
Type: Sweden. Jamtland, *Hassler s.n.* Holotype: "H.M."

B. pallens fo. *minus* (Bruch & W. P. Schimper) Podpera, Bryum Gen. Monogr. Prodr. 16: 186. 1973.
Basionym: *Bryum pallens* var. *minus* Bruch & W. P. Schimper, 1839.

B. pallens var. *minus* Bruch & W. P. Schimper, Bryol. Eur. 4: 140 (fasc. 6-9. Monogr. 70). 1839.
Other use: *Bryum pallens* fo. *minus* (Bruch & W. P. Schimper) Podpera, 1973.

**B. pallens* fo. *minutum* Podpera, Bryum Gen. Monogr. Prodr. 16: 181. 1973.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Bryum pallens* fo. *minutum* I. Hagen, 1901.
Type: Austria. Tirolia, Pinzgau, *Loeske s.n.* Holotype: "H.P."

B. pallens fo. *mughicola* Podpera, Bryum Gen. Monogr. Prodr. 16: 172. 1973.
Type: Czechoslovakia. Slovakia: Belanske Tatry, 1700 m, *Smarda s.n.* Holotype: "H.P."

B. pallens fo. *nematophorum* Podpera, Bryum Gen. Monogr. Prodr. 16: 176. 1973.
Replaced name: *Bryum capillare* var. *fallax* Loeske & Paul in E. Bauer, 1909.

B. pallens fo. *nudum* Podpera, Bryum Gen. Monogr. Prodr. 16: 212. 1973.
Type: Norway. N. Trondhjem, *Hassler s.n.* Holotype: "H.M.Holm."

B. pallens subsp. *opsicarpum* (Amann) Podpera, Bryum Gen. Monogr. Prodr. 16: 212. 1973.
Basionym: *Bryum opsicarpum* Amann, 1923.
Note: treated as invalid and cited from Podpera, Consp. Musc. Eur. 373. 1954, in Index Muscorum.

**B. pallens* subsp. *pallentiforme* Podpera, Bryum Gen. Monogr. Prodr. 16: 198. 1973.
*invalid, single element not cited as holotype (Article 37.3).
Type: Two collections cited, neither indicated as holotype.

B. pallens subsp. *pamirense* (Philibert ex Brotherus) Podpera, Bryum Gen. Monogr. Prodr. 16: 200. 1973.
Basionym: *Bryum pamirense* Philibert ex Brotherus, 1906.

B. pallens fo. *perforatum* Podpera, Bryum Gen. Monogr. Prodr. 16: 176. 1973.
Type: Norway. Lierne, *Hassler*, 1914. Holotype: "H.M."

B. pallens fo. *pistostomum* Podpera, Bryum Gen. Monogr. Prodr. 16: 176. 1973.
Type: Sweden. Jamtland, *Hassler s.n.* Holotype: "H.M."

B. pallens fo. *poeciloblepharum* (Cardot) Podpera, Bryum Gen. Monogr. Prodr. 16: 188. 1973.
Basionym: *Bryum poeciloblepharum* Cardot, 1909.

B. pallens fo. *portae-ferreae* Podpera, Bryum Gen. Monogr. Prodr. 16: 183. 1973.
Type: Czechoslovakia. Belanske Tatry, *Podpera s.n.* Holotype: "H.P."

Bryum, continued.

B. pallens subfo. *pragense* Podpera, Bryum Gen. Monogr. Prodr. 16: 169. 1973.
Type: Czechoslovakia. Bohemia: Praha, *Velenovsky s.n.* Holotype: "H.Pr." Paratype cited.

B. pallens fo. *productum* Podpera, Bryum Gen. Monogr. Prodr. 16: 183. 1973.
Type: Hungary. Komarom, *Boros 820.* Herbarium not specified by author.

B. pallens fo. *propaguliferum* (Mönkemeyer) Podpera, Bryum Gen. Monogr. Prodr. 16: 189. 1973.
Basionym: *Bryum fallax* fo. *propaguliferum* Mönkemeyer, 1906.

B. pallens subsp. *prosboreum* Podpera, Bryum Gen. Monogr. Prodr. 16: 218. 1973.
Type: Sweden. Abiskojokk, *Jäderholm*, 1917. Holotype: "H.M."

B. pallens subsp. *pseudoalandicum* Podpera, Bryum Gen. Monogr. Prodr. 16: 203. 1973.
Type: Finland. Alandia, *Bomansson*, 1893. Holotype: "H.L.D." Paratype cited.

B. pallens fo. *purpureum* (Philibert) Podpera, Bryum Gen. Monogr. Prodr. 16: 189. 1973.
Basionym: *Bryum purpureum* Philibert, 1886.

B. pallens fo. *rufescens* (Kindberg) Podpera, Bryum Gen. Monogr. Prodr. 16: 181. 1973.
Basionym: *Bryum pallens* subsp. *rufescens* Kindberg, 1897 [1898].

B. pallens subsp. *rufescens* Kindberg, Eur. N. Amer. Bryin. 2: 352. 1897 [1898].
Other use: *Bryum pallens* fo. *rufescens* (Kindberg) Podpera, 1973.

B. pallens subsp. *sibericum* (Lindberg & H. Arnell) Podpera, Bryum Gen. Monogr. Prodr. 16: 195. 1973.
Basionym: *Bryum sibericum* Lindberg & H. Arnell, 1890.

B. pallens fo. *speciosum* (Voit in Sturm) Podpera, Bryum Gen. Monogr. Prodr. 16: 174. 1973.
Basionym: *Bryum speciosum* Voit in Sturm, 1813.

B. pallens subsp. *spluegense* Podpera, Bryum Gen. Monogr. Prodr. 16: 200. 1973.
Type: Switzerland. Graubunden, *Bamberger*, 1858. Holotype: "H.M."

B. pallens subsp. *stenholmii* Podpera, Bryum Gen. Monogr. Prodr. 16: 214. 1973.
Type: Sweden. Jamtland, *Stenholm*, 1939. Holotype: "H.M."

B. pallens fo. *stenophyllum* Podpera, Bryum Gen. Monogr. Prodr. 16: 188. 1973.
Type: Finland. Alandia, *Bomansson*, 1872. Holotype: "H.L.D."

B. pallens subsp. *subdrepanocarpum* (Cardot & Thériot) Podpera, Bryum Gen. Monogr. Prodr. 16: 195. 1973.
Basionym: *Bryum subdrepanocarpum* Cardot & Thériot, 1904.

B. pallens fo. *subexcurrens* (Philibert) Podpera, Bryum Gen. Monogr. Prodr. 16: 186. 1973.
Basionym: *Bryum subexcurrens* Philibert, 1901.

B. pallens fo. *sublitorale* Kaurin ex Podpera, Bryum Gen. Monogr. Prodr. 16: 217. 1973.
Type: Norway. Porsanger, *Kaurin*, 1894. Holotype: "H.L.-D."

Bryum, continued.

B. pallens fo. *subpurpurascens* (Kindberg in Macoun) Podpera, Bryum Gen. Monogr. Prodr. 16: 188. 1973.
Basionym: *Bryum subpurpurascens* Kindberg in Macoun, 1892.

B. pallens fo. *sudeticum* Podpera, Bryum Gen. Monogr. Prodr. 16: 179. 1973.
Type: Czechoslovakia. Jeseniky, *Podpera s.n.* Holotype: "H.P."

B. pallens subsp. *synoicopallens* Podpera, Bryum Gen. Monogr. Prodr. 16: 198. 1973.
Type: Norway. Skaret, *Kaurin*, 1882. Holotype: "H.L.D."
Note: treated as invalid, no Latin description (Article 36.1), and cited from Podpera, Consp. Musc. Eur. 373. 1954, in Index Muscorum.

B. pallens subsp. *tatraepolites* Podpera, Bryum Gen. Monogr. Prodr. 16: 205. 1973.
Type: Czechoslovakia. Belanske Tatry, 2016 m, *Gyoerffy 503*. Holotype: "H.P."

B. pallens fo. *versisporum* Podpera, Bryum Gen. Monogr. Prodr. 16: 189. 1973.

B. pallens fo. *vulturiense* (De Notaris) Podpera, Bryum Gen. Monogr. Prodr. 16: 178. 1973.
Basionym: *Bryum pallens* var. *vulturiense* De Notaris, 1869.

B. pallens var. *vulturiense* De Notaris, Epil. Briol. Ital. [Atti R. Univ. Genova 1:] 382. 1869.
Other use: *Bryum pallens* fo. *vulturiense* (De Notaris) Podpera, 1973.
Note: not in Index Muscorum.

B. pallens fo. *winteri* Ruthe ex Podpera, Bryum Gen. Monogr. Prodr. 16: 180. 1973.
Type: Switzerland. Pontresina, 2500 m, *Winter*, 1888. Holotype: "Hb. Geheeb." Paratype cited.

B. pallescens Schleicher ex Schwägrichen, 1816.

B. pallescens subsp. *turkestanicum* Podpera, Práce Brnenské Zákl. Ceskolov. Akad. Ved 34: 97. 1962.
Other use: *Bryum pallescens* var. *turkestanicum* (Podpera) Savicz-Ljubitskaya, 1966.

B. pallescens var. *turkestanicum* (Podpera) Savicz-Ljubitskaya, Novosti Sist. Niz. Rast. 1966: 331. 1966.
Basionym: *Bryum pallescens* subsp. *turkestanicum* Podpera, 1962.

B. palustre Dickson, Fasc. Pl. Crypt. Brit. 4: 11. 1801.
Other use: *Dicranella palustris* (Dickson) Crundwell in E. F. Warburg, 1962 [1963].

B. pamirense Philibert ex Brotherus, Bot. Tidsskr. 27: 206. 1906.
Other use: *Bryum pallens* subsp. *pamirense* (Philibert ex Brotherus) Podpera, 1973.

**B. papillosum* H. Arnell ex G. Roth, Eur. Laubm. 2: 55. pl. 19: f. 2. 1904.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Bryum papillosum* Dickson, 1801.
Correct name: *Bryum ekstamii* Savicz-Ljubitskaya, 1966.

Bryum, continued.

B. paradoxum Schwägrichen, 1827.

B. paradoxum var. *reflexifolium* (Ochi) Ochi, Hikobia 5: 158. 1969.
Basionym: *Bryum pseudoalpinum* var. *reflexifolium* Ochi, 1964.

B. parasysphinctum Amann, Mém. Soc. Vaud. Sci. Nat. 3: 51. f. 6. 1928.
Other use: *Bryum bimum* var. *parasysphinctum* (Amann) Podpera, 1973.

B. parvum Bryhn & Ryan, Rep. Second Norweg. Arctic Exped. "Fram" 1898-1902, Mosses 2(11): 79. 1907.
Other use: *Bryum inclinatum* var. *parvum* (Bryhn & Ryan) Podpera, 1973.

B. pearyanum Bryhn, Forh. Vidensk.-Selsk. Christiania 1908(5): 17. 1908.
Other use: *Bryum rutilans* subsp. *pearyanum* (Bryhn) Podpera, 1973.

**B. pellucidum* (Dixon & Badhwar) Ochi, J. Hattori Bot. Lab. 35: 67. 1972.
*illegitimate, later homonym (Article 64.1).
Basionym: *Anomobryum pellucidum* Dixon & Badhwar, 1938.
Earlier name: *Bryum pellucidum* H. Richter, 1840.

B. penduliforme Bryhn & Ryan, Rep. Second Norweg. Arctic Exped. "Fram" 1898-1902, Mosses 2(11): 114. 1907.
Other use: *Bryum pendulum* subsp. *penduliforme* (Bryhn & Ryan) Podpera, 1973.

**B. pendulum* (Hornschuch) W. P. Schimper, 1856.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Bryum pendulum* Oeder ex Bridel, 1803.

B. pendulum var. *alaskanum* (Kindberg) Podpera, Bryum Gen. Monogr. Prodr. 17: 341. 1973.
Basionym: *Bryum alaskanum* Kindberg, 1897 [1898].

B. pendulum var. *alexandri* (Philibert) Podpera, Bryum Gen. Monogr. Prodr. 17: 327. 1973.
Basionym: *Bryum alexandri* Philibert, 1900.

**B. pendulum* fo. *angustatum* Podpera, Bryum Gen. Monogr. Prodr. 17: 319. 1973.
*illegitimate, later homonym in same species (Article 64.4).
Earlier name: *Bryum pendulum* subsp. *angustatum* Amann, 1882.
Replaced name: *Bryum pendulum* var. *angustatum* Renauld in Boulay, 1884.
Note: new name, based on adoption of earlier epithet (Article 72.Note 1).

**B. pendulum* var. *angustatum* Renauld in Boulay, Musc. France 25. 1884.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Bryum pendulum* subsp. *angustatum* Amann, 1882.
Other use: *Bryum pendulum* fo. *angustatum* Podpera, 1973.

B. pendulum subsp. *angustirete* (Kindberg) Podpera, Bryum Gen. Monogr. Prodr. 17: 355. 1973.
Basionym: *Bryum angustirete* Kindberg, 1889.

B. pendulum fo. *arctobryoides* (Bryhn & Ryan) Podpera, Bryum Gen. Monogr. Prodr. 17: 323. 1973.
Basionym: *Bryum pendulum* var. *arctobryoides* Bryhn & Ryan, 1907.

Bryum, continued.

B. pendulum var. *arctobryoides* Bryhn & Ryan, Rep. Second Norweg. Arctic Exped. "Fram" 1898-1902, Mosses 2(11): 14. 1907.

Other use: *Bryum algovicum* var. *arctobryoides* (Bryhn & Ryan) Margadant, 1972, *Bryum pendulum* fo. *arctobryoides* (Bryhn & Ryan) Podpera, 1973.

B. pendulum subsp. *argyroglyphodon* (Philibert) Podpera, Bryum Gen. Monogr. Prodr. 17: 351. 1973.

Basionym: *Bryum argyroglyphodon* Philibert, 1900.

B. pendulum fo. *aristatum* (Warnstorf) Podpera, Bryum Gen. Monogr. Prodr. 17: 325. 1973.

Basionym: *Bryum pendulum* var. *aristatum* Warnstorf, 1914.

**B. pendulum* var. *aristatum* Warnstorf, Hedwigia 54: 36. 1914.

Other use: *Bryum pendulum* fo. *aristatum* (Warnstorf) Podpera, 1973.

B. pendulum subsp. *brachylepis* (Kindberg) Podpera, Bryum Gen. Monogr. Prodr. 17: 344. 1973.

Basionym: *Bryum brachylepis* Kindberg, 1907.

B. pendulum subsp. *calobolax* (C. Müller) Podpera, Bryum Gen. Monogr. Prodr. 17: 352. 1973.

Basionym: *Bryum calobolax* C. Müller, 1883.

B. pendulum subsp. *camptoneurum* (Cardot & Thériot in Dupret) Podpera, Bryum Gen. Monogr. Prodr. 17: 351. 1973, "*camptoneuron*."

Basionym: *Bryum camptoneurum* Cardot & Thériot in Dupret, 1934.

B. pendulum var. *ciliatum* C. E. O. Jensen in P. J. Lund, Bot. Tidsskr. 41: 308. 1931.

Other use: *Bryum algovicum* var. *ciliatum* (C. E. O. Jensen in P. J. Lund) Margadant, 1972.

B. pendulum subsp. *deylii* Podpera, Bryum Gen. Monogr. Prodr. 17: 344. 1973.

Type: U.S.S.R. Russia transcarpathica, *Deyl s.n.* Holotype: "H.M.N.Pr."

B. pendulum fo. *ecpneuma* Podpera, Bryum Gen. Monogr. Prodr. 17: 326. 1973.

Type: Hungary. Vasad, *Boros s.n.* Holotype: "H.P." Paratype cited.

B. pendulum subfo. *einarii* Podpera, Bryum Gen. Monogr. Prodr. 17: 335. 1973, "*einari*."

Type: Norway. Sondre Bergenhus Amt, *Einar du Rietz s.n.* Holotype: "H.P."

B. pendulum var. *eumeces* Podpera, Bryum Gen. Monogr. Prodr. 17: 327. 1973.

Type: India, *Hooker & Thomson 444*. Herbarium not specified by author.

B. pendulum fo. *glaphyromorphum* Podpera, Bryum Gen. Monogr. Prodr. 17: 335. 1973.

Type: Czechoslovakia. Slovakia: Belanske Tatry, *Smarda s.n.* Holotype: "H.P." Paratypes cited.

B. pendulum fo. *globicarpum* Podpera, Bryum Gen. Monogr. Prodr. 17: 334. 1973.

Type: Austria. Salzburg, *Handel-Mazzetti*, 1900. Holotype: "H.Vind."

B. pendulum fo. *globiforme* Podpera, Bryum Gen. Monogr. Prodr. 17: 318. 1973.

Type: Germany. Brandenburg, "coll.? verisimiliter Ruthe." Holotype: "ex hb. Schimper."

Bryum, continued.

B. pendulum subsp. *gotlandicum* Podpera, Bryum Gen. Monogr. Prodr. 17: 348. 1973.
Type: Sweden. Gotland, *Johansson*, 1908. Holotype: "H.M.Holm."

B. pendulum fo. *gracile* Podpera, Bryum Gen. Monogr. Prodr. 17: 334. 1973.
Type: Austria. Kaiserstein, *Juratzka s.n.* Holotype: "H.V." Paratypes cited.

B. pendulum fo. *haemochrous* Podpera, Bryum Gen. Monogr. Prodr. 17: 335. 1973.
Type: Yugoslavia. Hercegovina, *Deyl s.n.* Holotype: "H.M.B." Paratypes cited.

B. pendulum fo. *handelii* Podpera, Bryum Gen. Monogr. Prodr. 17: 321. 1973.
Type: Austria. Tirolia, *Handel-Mazzetti s.n.* Holotype: "H.P."
Note: homonym of equal priority with *B. pendulum* fo. *handelii* Podpera.

B. pendulum fo. *handelii* Podpera, Bryum Gen. Monogr. Prodr. 17: 336. 1973.
Type: Austria. Carinthia, *Handel-Mazzetti s.n.* Holotype: "H.Vind."
Note: homonym of equal priority with *B. pendulum* fo. *handelii* Podpera.

B. pendulum var. *hassleri* Podpera, Bryum Gen. Monogr. Prodr. 17: 342. 1973.
Type: Sweden. Jamtland, *Hassler s.n.* Holotype: "H.M."

B. pendulum subsp. *holmgrenii* Podpera, Bryum Gen. Monogr. Prodr. 17: 342. 1973.
Type: Sweden. Gotland, *Holmgren s.n.* Holotype: "H.L.D."

B. pendulum fo. *holzingeri* (Cardot & Thériot) Podpera, Bryum Gen. Monogr. Prodr. 17: 320. 1973.
Basionym: *Bryum holzingeri* Cardot & Thériot, 1903.

B. pendulum fo. *incontextum* Podpera, Bryum Gen. Monogr. Prodr. 17: 316. 1973.
Type: Denmark. Rome, *Jaap*, 1901. Herbarium not specified by author.

B. pendulum fo. *incurvum* Podpera, Bryum Gen. Monogr. Prodr. 17: 321. 1973.
Type: Sweden. Jamtland, *Medelius*, 1919. Holotype: "H.P." Paratypes cited.

B. pendulum fo. *inflatum* Podpera in Boros, Publ. Comm. Geogr. Pay Natal. Debrecen 7: 36. 1931.
Other use: *Bryum angustirete* fo. *inflatum* (Podpera in Boros) Savicz-Ljubitskaya, 1966.

B. pendulum subsp. *jamanense* Amann, Fl. Mouss. Suisse 1: 119. 1918.
Other use: *Bryum algovicum* var. *jamanense* (Amann) Margadant, 1972.

B. pendulum subsp. *janzeniellum* Podpera, Bryum Gen. Monogr. Prodr. 17: 353. 1973.
Type: Norway. Trondhjem, *Janzen*, 1894. Holotype: "H.P."

B. pendulum fo. *jensenii* Podpera, Bryum Gen. Monogr. Prodr. 17: 335. 1973.
Type: Greenland., *Hartz s.n.* Holotype: "H.V." Paratype cited.

B. pendulum subsp. *johanssonii* Podpera, Bryum Gen. Monogr. Prodr. 17: 356. 1973.
Type: Sweden. Bohuslan, *Johansson*, 1924. Holotype: "H.M.H."

B. pendulum var. *kernii* Podpera, Bryum Gen. Monogr. Prodr. 17: 339. 1973.
Type: Norway. Dovrefjeld, *Kern*, 1897. Holotype: "H.P." Paratype cited.

B. pendulum fo. *leucopyxis* Podpera, Bryum Gen. Monogr. Prodr. 17: 323. 1973.
Type: Austria. Tirolia, *Peyritsch s.n.* Holotype: "H.Oen." Paratypes cited.

Bryum, continued.

B. pendulum fo. *limbatum* Podpera, Bryum Gen. Monogr. Prodr. 17: 324. 1973.
Type: Sweden. Lapponia Tornensis, *Jäderholm s.n.* Holotype: "H.P."

B. pendulum fo. *lingicollum* Podpera, Bryum Gen. Monogr. Prodr. 17: 314. 1973.
Type: Czechoslovakia. Moravia: Kunstat, *Podpera s.n.* Holotype: "H.P." Paratypes cited.

B. pendulum fo. *longipes* (Kindberg) Podpera, Bryum Gen. Monogr. Prodr. 17: 314. 1973.
Basionym: *Bryum pendulum* subsp. *longipes* Kindberg, 1907.

B. pendulum subsp. *longipes* Kindberg, Rev. Bryol. 34: 92. 1907.
Other use: *Bryum pendulum* fo. *longipes* (Kindberg) Podpera, 1973.

**B. pendulum* subsp. *longirostratum* (H. Arnell) Podpera, Bryum Gen. Monogr. Prodr. 17: 350. 1973.
*invalid, a different name, *B. arcticum* subsp. *longirostratum*, simultaneously published for this taxon (Article 34.3).
Basionym: *Bryum longirostratum* H. Arnell, 1918.

B. pendulum fo. *majus* (Philibert) Podpera, Bryum Gen. Monogr. Prodr. 17: 327. 1973.
Basionym: *Bryum alexandri* var. *majus* Philibert, 1900.

B. pendulum fo. *maritimum* Podpera, Bryum Gen. Monogr. Prodr. 17: 317. 1973.
Type: Denmark. Logstov, *Jeppesen*, 1897. Holotype: "H.M.N.Pr." Paratype cited.

B. pendulum var. *melvilleanum* (C. Müller) Podpera, Bryum Gen. Monogr. Prodr. 17: 342. 1973.
Basionym: *Bryum melvilleanum* C. Müller, 1848.

B. pendulum var. *mendelii* Podpera, Bryum Gen. Monogr. Prodr. 17: 337. 1973.
Type: Sweden. Jamtland, *Medelius*, 1919. Holotype: "H.P."

B. pendulum subsp. *mildeellum* Podpera, Bryum Gen. Monogr. Prodr. 17: 349. 1973, "*mildeelum*."
Type: Italy. Venetia alta, *Milde s.n.* Holotype: "H.V."
Note: the index, page 443, uses the spelling "*mildeellum*."

B. pendulum fo. *minnesotense* (Cardot & Thériot in Holzinger) Podpera, Bryum Gen. Monogr. Prodr. 17: 320. 1973.
Basionym: *Bryum minnesotense* Cardot & Thériot in Holzinger, 1903.

B. pendulum fo. *minus* Podpera, Bryum Gen. Monogr. Prodr. 17: 320. 1973.
Type: Sweden. Lapp. Tornensis, *Jäderholm s.n.* Holotype: "H.P." Paratypes cited.

B. pendulum fo. *mortenii* Podpera, Bryum Gen. Monogr. Prodr. 17: 335. 1973.
Type: Greenland. Kuanit ved Godhavn, *Porsild*, 1934. Holotype: "H.M.H."

B. pendulum fo. *nevadense* (Cardot & Thériot) Podpera, Bryum Gen. Monogr. Prodr. 17: 319. 1973.
Basionym: *Bryum pendulum* var. *nevadense* Cardot & Thériot, 1904.

Bryum, continued.

B. pendulum var. *nevadense* Cardot & Thériot, Bot. Gaz. (Crawfordsville) 37: 370. 1904.

Other use: *Bryum algovicum* var. *nevadense* (Cardot & Thériot) Margadant, 1972, *Bryum pendulum* fo. *nevadense* (Cardot & Thériot) Podpera, 1973.

**B. pendulum* fo. *obtusulum* Podpera, Bryum Gen. Monogr. Prodr. 17: 334. 1973.

*invalid, single element not cited as holotype (Article 37.3).

Type: two collections cited, neither indicated as holotype.

B. pendulum var. *orbiculatum* Podpera, Bryum Gen. Monogr. Prodr. 17: 339. 1973.

Type: Switzerland. Le Chasseron, *Meylan s.n.* Holotype: "H.P."

B. pendulum fo. *oxyacron* Podpera, Bryum Gen. Monogr. Prodr. 17: 320. 1973.

Type: Poland. Silesia, Wroclaw, *Milde s.n.* Holotype: "H.Br." Paratypes cited.

B. pendulum fo. *oxycalymmum* Podpera, Bryum Gen. Monogr. Prodr. 17: 334. 1973.

Type: Norway. Dovrefjeld, *Lorenta s.n.* Holotype: "H.M.N.Pr."

B. pendulum fo. *parvulum* (Kindberg) Podpera, Bryum Gen. Monogr. Prodr. 17: 321. 1973.

Basionym: *Bryum pendulum* subsp. *parvulum* Kindberg, 1907.

B. pendulum subsp. *parvulum* Kindberg, Rev. Bryol. 34: 92. 1907.

Other use: *Bryum algovicum* var. *parvulum* (Kindberg) Margadant, 1972, *Bryum pendulum* fo. *parvulum* (Kindberg) Podpera, 1973.

B. pendulum subsp. *penduliforme* (Bryhn & Ryan) Podpera, Bryum Gen. Monogr. Prodr. 17: 346. 1973.

Basionym: *Bryum penduliforme* Bryhn & Ryan, 1907.

B. pendulum fo. *piriforme* Podpera, Bryum Gen. Monogr. Prodr. 17: 317. 1973.

Type: Czechoslovakia. Melnik, *Podpera s.n.* Holotype: "H.P."

B. pendulum subsp. *plagiorhabdium* Podpera, Bryum Gen. Monogr. Prodr. 17: 353. 1973.

Type: Norway. Tromsoe, *Arnell s.n.* Holotype: "H.M.H."

B. pendulum fo. *porsildii* Podpera, Bryum Gen. Monogr. Prodr. 17: 320. 1973.

Type: Greenland, *Porsild*, 1934. Holotype: "H.M.H."

B. pendulum subsp. *potaninii* Podpera, Bryum Gen. Monogr. Prodr. 17: 351. 1973.

Type: China. Jiangsu, *Potanin*, 1886. Holotype: "H.V."

B. pendulum fo. *rimosum* Podpera, Bryum Gen. Monogr. Prodr. 17: 333. 1973.

Type: Norway. Finse, *Du Rietz*, 1916. Holotype: "H.P." Paratype cited.

B. pendulum subsp. *roellii* (Philibert) Podpera, Bryum Gen. Monogr. Prodr. 17: 350. 1973.

Basionym: *Bryum roellii* Philibert, 1890.

B. pendulum var. *rutheanum* Warnstorf, Verh. Bot. Vereins Prov. Brandenburg 14: 84. 1873.

Other use: *Bryum algovicum* var. *rutheanum* (Warnstorf) Crundwell, 1970.

Bryum, continued.

B. pendulum subsp. *stenodictyum* Podpera, Bryum Gen. Monogr. Prodr. 17: 355. 1973.
Type: Sweden. Jamtland, *Hassler*, 1910. Holotype: "H.M.H."

B. pendulum fo. *striolatum* (Bryhn & Ryan) Podpera, Bryum Gen. Monogr. Prodr. 17: 323. 1973.
Basionym: *Bryum pendulum* var. *striolatum* Bryhn & Ryan, 1907.

B. pendulum var. *striolatum* Bryhn & Ryan, Rep. Second Norweg. Arctic Exped. "Fram" 1898-1902, Mosses 2(11): 113. 1907.
Other use: *Bryum algovicum* var. *striolatum* (Bryhn & Ryan) Margadant, 1972, *Bryum pendulum* fo. *striolatum* (Bryhn & Ryan) Podpera, 1973.

B. pendulum fo. *sullivantii* Podpera, Bryum Gen. Monogr. Prodr. 17: 318. 1973.
Type: America borealis, *Sullivant & Lesquereux s.n.* (Musci Bor.-Amer. 262). Holotype: "H.V."

B. pendulum fo. *trautmannii* Podpera, Bryum Gen. Monogr. Prodr. 17: 336. 1973.
Type: Italy. Venetia alta, *Trautmann*, 1912. Holotype: "H.P."

B. pendulum var. *upplandicum* H. Arnell ex Podpera, Bryum Gen. Monogr. Prodr. 17: 340. 1973.
Type: Sweden. Uppland, Vato, *Arnell*, 1910. Holotype: "H.P."

B. pendulum fo. *validum* Podpera, Bryum Gen. Monogr. Prodr. 17: 325. 1973.
Type: Germany. Brandenburgia, *Fiedler*, 1842. Holotype: "H.V."

B. pendulum fo. *viridissimum* (Amann) Podpera, Bryum Gen. Monogr. Prodr. 17: 325. 1973.
Basionym: *Bryum pendulum* var. *viridissimum* Amann, 1918.

B. pendulum var. *viridissimum* Amann, Fl. Mouss. Suisse 2: 190. 1918.
Other use: *Bryum pendulum* fo. *viridissimum* (Amann) Podpera, 1973.
Note: cited from "Fl. Mouss. Suisse 1: 119" in Index Muscorum and listed as illegitimate.

B. percomatum Amann, Bull. Soc. Vaud. Sci. Nat. 53: 100. 1920.
Replaced name: *Bryum rosulatum* Amann, 1919.
Blocking name: *Bryum rosulatum* C. Müller, 1856.
Other use: *Bryum pseudotriquetrum* subsp. *percomatum* (Amann) Podpera, 1973.

B. perconcavifolium Ochi, J. Fac. Educ. Tottori Univ., Nat. Sci. 27: 33. f. 1. 1977.
Type: Mexico. Tamaulipas: road to La Perra (El Porvenir), Rancho del Cielo, above Gomez Farias, *Sharp 20*. Holotype: TENN; isotype: herb. Ochi.

B. perspinidens Brotherus, Bot. Jahrb. Syst. 24: 246. 1897.
Other use: *Rhodobryum perspinidens* (Brotherus) Pócs in Bizot & Pócs, 1979 [1980].

B. piliferum Dickson, Fasc. Pl. Crypt. Brit. 4: 10. pl. 10: f. 14. 1801.
Other use: *Stegonia pilifera* (Dickson) H. Crum & L. E. Anderson, 1989.

B. planifolium Kindberg, Bih. Kongl. Svenksa Vetensk.-Akad. Handl. 7(9): 75. 1883.
Other use: *Bryum inclinatum* subfo. *planifolium* (Kindberg) Podpera, 1973.

Bryum, continued.

B. planioperculatum Warnstorf, Krypt.-Fl. Brandenburg, Laubm. 2: 455. pl. 471: f. 3. 1905.
Other use: *Bryum inclinatum* var. *planioperculatum* (Warnstorf) Podpera, 1973.

B. plicatum (Cardot) Ochi, J. Fac. Educ. Tottori Univ., Nat. Sci. 28: 83. 1978.
Basionym: *Anomobryum plicatum* Cardot, 1909.

B. pocsii Bizot, Rev. Bryol. Lichénol. 38: 594. 1971-72 [1973].
Replaced name: *Epipterygium diversifolium* Renauld & Paris, 1902.
Blocking name: *Bryum diversifolium* Brotherus, 1910.
Note: invalid, basionym not cited (Article 33.2), in Bull. Soc. Bot. France 114: 424. 1967 [1968].

B. poeciloblepharum Cardot, Bull. Soc. Bot. Genève, ser. 2, 1: 126. 1909.
Other use: *Bryum pallens* fo. *poeciloblepharum* (Cardot) Podpera, 1973.

B. polycladum Cardot & Thériot, Bot. Gaz. (Crawfordsville) 37: 370. pl. 21: f. 1. 1904.
Other use: *Bryum inclinatum* subsp. *polycladum* (Cardot & Thériot) Podpera, 1973.

B. polymorphum (Hoppe & Hornschuch) C. J. Hartman, Handb. Skand. Fl. (ed. 3) 3: 246. 1838.
Basionym: *Pohlia polymorpha* Hoppe & Hornschuch, 1819.

**B. polymorphum* (Dixon) Ochi, J. Hattori Bot. Lab. 35: 67. 1972.
*illegitimate, later homonym (Article 64.1).
Basionym: *Anomobryum polymorphum* Dixon, 1938.
Earlier name: *Bryum polymorphum* (Hoppe & Hornschuch) C. J. Hartman, 1838.

B. praecox Warnstorf, Verh. Bot. Vereins Prov. Brandenburg 41: 58. 1899.
Other use: *Bryum lisae* var. *praecox* (Warnstorf) Margadant, 1972.

B. prosatherum Podpera, Bryum Gen. Monogr. Prodr. 17: 358. 1973.
Type: Sweden. Jamtland, *Hassler*, 1912. Holotype: "H.M.Holm."

B. pseudoalpinum Renauld & Cardot, 1895 [1896].

B. pseudoalpinum var. *reflexifolium* Ochi, J. Jap. Bot. 39: 52. f. 10. 1964.
Type: India. Sikkim: Yoksam, 1700 m, *Univ. Tokyo Bot. Exped. 200706*. Holotype: NICH.
Other use: *Bryum paradoxum* var. *reflexifolium* (Ochi) Ochi, 1969, *Bryum reflexifolium* (Ochi) Ochi in Noguchi & Iwatsuki, 1975, *Bryum teretiusculum* var. *reflexifolium* (Ochi) Ochi in Noguchi in H. Hara, 1966.

B. pseudoblandum T. Koponen & Norris, Ann. Bot. Fenn. 21: 280. f. 6. 1984.
Type: Papua New Guinea. Morobe: Mt. Sarawaket Southern Range, 2.5 km S of L. Gwam and E of Mt. Enggum, 3500-3570 m, *Koponen 32716*. Holotype: H; isotypes: HSC, LAE.

B. pseudograefianum Cardot & Thériot, Univ. Calif. Publ. Bot. 2: 301. 1906.
Other use: *Bryum inclinatum* var. *pseudograefianum* (Cardot & Thériot) Podpera, 1973.

Bryum, continued.

B. pseudotriquetrum (Hedwig) P. G. Gärtner, B. Meyer & Scherbius, 1802.

B. pseudotriquetrum fo. *acutatum* Brotherus ex Podpera, Bryum Gen. Monogr. Prodr. 16: 87. 1973.

Type: Czechoslovakia. Bohemia: Praha, *Podpera s.n.* Holotype: "H.P."

B. pseudotriquetrum fo. *acutum* Podpera, Bryum Gen. Monogr. Prodr. 16: 83. 1973.

Type: Czechoslovakia. Slovakia: Sulov, *Podpera s.n.* Holotype: "H.P." Paratype cited.

B. pseudotriquetrum fo. *alaricola* Podpera, Bryum Gen. Monogr. Prodr. 16: 116. pl. 8: a-f, h-k. 1973.

Type: Sweden. Oeland. Borgholmsalvar, *Zetterstedt s.n.* Holotype: "H.L.D."

B. pseudotriquetrum fo. *alpiniforme* (Kindberg in Macoun) Podpera, Bryum Gen. Monogr. Prodr. 16: 128. 1973.

Basionym: *Bryum alpiniforme* Kindberg in Macoun, 1892.

B. pseudotriquetrum fo. *alpinum* Györffy ex Podpera, Bryum Gen. Monogr. Prodr. 16: 80. 1973.

Type: Poland. Tatry, Czarny staw, *Gyoerffy s.n.* Holotype: "H.P."

B. pseudotriquetrum fo. *anacamptum* Podpera, Bryum Gen. Monogr. Prodr. 16: 116. pl. 8: x, z. 1973.

Type: Yugoslavia. Triglav, *Kern s.n.* Holotype: "H.P."

B. pseudotriquetrum fo. *angustatum* (Cardot) Podpera, Bryum Gen. Monogr. Prodr. 16: 77. 1973.

Basionym: *Bryum pseudotriquetrum* var. *angustatum* Cardot, 1904.

B. pseudotriquetrum var. *angustatum* Cardot, Beih. Bot. Centralbl. 17: 19. 1904.

Other use: *Bryum pseudotriquetrum* fo. *angustatum* (Cardot) Podpera, 1973.

B. pseudotriquetrum fo. *angustifolium* (Lindberg) Podpera, Bryum Gen. Monogr. Prodr. 16: 87. 1973.

Basionym: *Bryum ventricosum* var. *angustifolium* Lindberg, 1883.

B. pseudotriquetrum fo. *anomalum* (Mikutowicz) Podpera, Bryum Gen. Monogr. Prodr. 16: 115. 1973.

Basionym: *Bryum pseudotriquetrum* var. *anomalum* Mikutowicz, 1909.

Note: valid, error of bibliographic citation of basionym (Article 33.2), "*B. ventricosum* var. *anomalum*."

B. pseudotriquetrum var. *anomalum* Mikutowicz, Bryoth. Balt. 92. 1909.

Other use: *Bryum pseudotriquetrum* fo. *anomalum* (Mikutowicz) Podpera, 1973.

B. pseudotriquetrum fo. *apiociden* Podpera, Bryum Gen. Monogr. Prodr. 16: 123. 1973.

Type: Norway. Dovre, Kongsvoll, 1200 m, *Podpera s.n.* Holotype: "H.P."

B. pseudotriquetrum fo. *aquilanum* (Bottini) Podpera, Bryum Gen. Monogr. Prodr. 16: 123. 1973.

Basionym: *Bryum ventricosum* var. *aquilanum* Bottini, 1913.

B. pseudotriquetrum fo. *arcticum* Podpera, Bryum Gen. Monogr. Prodr. 16: 113. 1973.

Type: Jan Mayen, *Beer s.n.* Holotype: "H.V."

Bryum, continued.

B. pseudotriquetrum fo. *aristulatum* Podpera, Bryum Gen. Monogr. Prodr. 16: 108. 1973.
Type: Czechoslovakia. Moravia: Vyskov, *Podpera s.n.* Holotype: "H.P." Paratype cited.
Note: homonym of equal priority with *B. pseduotriquetrum* fo. *aristulatum* Podpera.

B. pseudotriquetrum fo. *aristulatum* Podpera, Bryum Gen. Monogr. Prodr. 16: 112. 1973.
Type: Austria. Tirolia, Gschitztal, *Schiffner s.n.* Holotype: "H.Oen."
Note: homonym of equal priority with *B. pseduotriquetrum* fo. *aristulatum* Podpera.

B. pseudotriquetrum fo. *atheroferum* (Podpera) Podpera, Bryum Gen. Monogr. Prodr. 16: 122. 1973.
Basionym: *Bryum ventricosum* var. *atheroferum* Podpera, 1932.

B. pseudotriquetrum fo. *atropurpureum* Podpera, Bryum Gen. Monogr. Prodr. 16: 90. 1973.
Type: Finland. Alandia, *Brotherus s.n.* Herbarium not specified by author. Other indicated distribution: Sweden.

B. pseudotriquetrum fo. *bornmuelleri* (Schiffner) Podpera, Bryum Gen. Monogr. Prodr. 16: 129. 1973, "*bornmulleri*."
Basionym: *Bryum pseudotriquetrum* var. *bornmuelleri* Schiffner, 1897.

B. pseudotriquetrum var. *bornmuelleri* Schiffner, Oesterr. Bot. Z. 47: 130. 1897.
Other use: *Bryum pseudotriquetrum* fo. *bornmuelleri* (Schiffner) Podpera, 1973.

B. pseudotriquetrum fo. *borosii* Podpera, Bryum Gen. Monogr. Prodr. 16: 91. 1973.
Type: Hungary. Budapest, *Boros s.n.* Holotype: "H.P."

B. pseudotriquetrum fo. *brachycarpum* Brotherus ex Podpera, Bryum Gen. Monogr. Prodr. 16: 79. 1973.
Type: Patagonia, Rio Fossiles, 32 Camp, 950 m, *Dusén s.n.* Holotype: "H.B.-H." Paratypes cited.

B. pseudotriquetrum fo. *breidleri* Podpera, Bryum Gen. Monogr. Prodr. 16: 141. 1973.
Type: Austria. Tirolia, Mittereck, 2900 m, *Breidler*, 1882. Holotype: "H.L.D."

B. pseudotriquetrum fo. *brevifolium* (Mikutowicz) Podpera, Bryum Gen. Monogr. Prodr. 16: 141. 1973.
Basionym: *Bryum duvalioides* var. *brevifolium* Mikutowicz, 1909.

B. pseudotriquetrum fo. *brevirete* Podpera, Bryum Gen. Monogr. Prodr. 16: 87. 1973.
Type: Sweden. Jabrenjokk, *Jäderholm s.n.* Holotype: "H.M."

B. pseudotriquetrum fo. *catabaptistum* Podpera, Bryum Gen. Monogr. Prodr. 16: 141. 1973.
Type: Germany. Bavaria: Memmingen, 610 m, *Holler*, 1882. Herbarium not specified by author.

Bryum, continued.

**B. pseudotriquetrum* fo. *cavifolium* (Podpera) Podpera, Bryum Gen. Monogr. Prodr. 16: 95. 1973, "*cavifrons*."

*invalid, a different name, *B. bimum* fo. *cavifolium*, with the same basionym, simultaneously published for this taxon (Article 34.3).

B. pseudotriquetrum fo. *cephalophorum* Podpera, Bryum Gen. Monogr. Prodr. 16: 115. 1973.

Type: Sweden. Gotland, *Johansson s.n.* Holotype: "H.M.Holm."

B. pseudotriquetrum fo. *colymbetes* Podpera, Bryum Gen. Monogr. Prodr. 16: 127. 1973.

Type: Germany. Wurttemburg, Eglots, *Herter s.n.* Holotype: "H.L.D."

B. pseudotriquetrum fo. *covillei* (Renauld & Cardot) Podpera, Bryum Gen. Monogr. Prodr. 16: 131. 1973.

Basionym: *Bryum crassirameum* var. *covillei* Renauld & Cardot, 1900.

Note: valid, error of bibliographic citation of basionym (Article 33.2), "*B. v.* var. *covillei* . . . Bryologist 5: 16. 1902."

B. pseudotriquetrum fo. *crassinervium* Podpera, Bryum Gen. Monogr. Prodr. 16: 84. 1973.

Replaced name: *Bryum ventricosum* var. *crassinervium* Loeske in Warnstorf, 1904.

Note: new name, based on adoption of earlier epithet (Article 72.Note 1).

B. pseudotriquetrum subsp. *crassirameum* (Renauld & Cardot) Podpera, Bryum Gen. Monogr. Prodr. 16: 131. 1973.

Basionym: *Bryum crassirameum* Renauld & Cardot, 1890.

B. pseudotriquetrum var. *crassirameum* (Renauld & Cardot) E. Lawton, Moss Fl. Pacific Northwest 173. 1971.

Basionym: *Bryum crassirameum* Renauld & Cardot, 1890.

B. pseudotriquetrum fo. *crispatum* Podpera, Bryum Gen. Monogr. Prodr. 16: 95. 1973.

Type: Czechoslovakia. Jesenik, bei Waldenburg, 1300 m, *Kern s.n.* Holotype: "H.P."

B. pseudotriquetrum fo. *cuspidatum* (Mikutowicz) Podpera, Bryum Gen. Monogr. Prodr. 16: 127. 1973.

Basionym: *Bryum duvalioides* var. *cuspidatum* Mikutowicz, 1900.

B. pseudotriquetrum fo. *cylindricum* Podpera, Bryum Gen. Monogr. Prodr. 16: 77. 1973.

Type: Czechoslovakia. Tatra Minor, Hradovice, *Vlach s.n.* Holotype: "H.P."

B. pseudotriquetrum fo. *dasyphyum* Podpera, Bryum Gen. Monogr. Prodr. 16: 107. 1973.

Type: U.S.S.R. Pikuj. Comit. Berehovo, 1230 m, *Boros 743.* Holotype: "H.P."

B. pseudotriquetrum fo. *densifolium* (Bryhn & Ryan) Podpera, Bryum Gen. Monogr. Prodr. 16: 140. 1973.

Basionym: *Bryum crispulum* var. *densifolium* Bryhn & Ryan, 1907.

B. pseudotriquetrum fo. *densiusculum* Podpera, Bryum Gen. Monogr. Prodr. 16: 113. 1973.

Type: Czechoslovakia. Spisske Podhradie, *Gyoerffy s.n.* Holotype: "H.P."

Bryum, continued.

B. pseudotriquetrum fo. *densum* Boros ex Podpera, Bryum Gen. Monogr. Prodr. 16: 90. 1973.
Type: Hungary. Pest, Ocsa, *Boros s.n.* Holotype: "H.P."

B. pseudotriquetrum fo. *denticulatum* (Kindberg) Podpera, Bryum Gen. Monogr. Prodr. 16: 86. 1973.
Basionym: *Bryum denticulatum* Kindberg, 1890.

B. pseudotriquetrum fo. *dimorphophyllum* (Cardot & Thériot) Podpera, Bryum Gen. Monogr. Prodr. 16: 82. 1973.
Basionym: *Bryum dimorphophyllum* Cardot & Thériot, 1904.

B. pseudotriquetrum fo. *drivaecolum* Podpera, Bryum Gen. Monogr. Prodr. 16: 122. 1973.
Type: Norway. Doore, Kongsvoll, *Podpera s.n.* Holotype: "H.P."

B. pseudotriquetrum var. *dunarum* Podpera, Bryum Gen. Monogr. Prodr. 16: 100. 1973.
Type: United Kingdom. England: Lancashire, *Wheldon s.n.* Holotype: "H.Br."

B. pseudotriquetrum fo. *elatum* (Hammerschmid) Podpera, Bryum Gen. Monogr. Prodr. 16: 127. 1973.
Basionym: *Bryum duvalioides* var. *elatum* Hammerschmid, 1911.
Note: valid, error of bibliographic citation of basionym (Article 33.2), "*B. v.* var. *elatum*. 1911."

B. pseudotriquetrum var. *estigmenum* Podpera, Bryum Gen. Monogr. Prodr. 16: 116. pl. 8: l-p, r. 1973.
Type: Sweden. Vilkisorta, *Jäderholm s.n.* Holotype: "H.P."

B. pseudotriquetrum fo. *euryloma* (Cardot & Thériot) Podpera, Bryum Gen. Monogr. Prodr. 16: 99. 1973.
Basionym: *Bryum euryloma* Cardot & Thériot, 1900.

B. pseudotriquetrum subsp. *extenuatum* Podpera, Bryum Gen. Monogr. Prodr. 16: 131. 1973.
Replaced name: *Bryum extenuatum* Renauld & Cardot, 1890.
Blocking name: *Bryum extenuatum* Mitten, 1859.
Note: new name, based on adoption of earlier epithet (Article 72.Note 1).

B. pseudotriquetrum fo. *filum* Podpera, Bryum Gen. Monogr. Prodr. 16: 114. 1973.
Type: Sweden. Uppland, *Halle s.n.* Holotype: "H.M.Holm."

B. pseudotriquetrum fo. *furcotae* Podpera, Bryum Gen. Monogr. Prodr. 16: 95. 1973.
Type: Czechoslovakia. Slovakia: val. Furkota, Tatra Magna, *Smarda s.n.* Holotype: "H.P."

B. pseudotriquetrum fo. *glaciale* (Podpera) Podpera, Bryum Gen. Monogr. Prodr. 16: 122. 1973.
Basionym: *Bryum pseudotriquetrum* var. *glaciale* Podpera, 1924.

B. pseudotriquetrum var. *glaciale* Podpera, Veröff. Geobot. Inst. Rübel Zürich 1: 252. 1924.
Other use: *Bryum pseudotriquetrum* fo. *glaciale* (Podpera) Podpera, 1973.

Bryum, continued.

B. pseudotriquetrum var. *gogelanum* Podpera, Bryum Gen. Monogr. Prodr. 16: 109. 1973.

Type: Czechoslovakia. Moravia: Bystrice, *Podpera s.n.* Holotype: "H.P."

B. pseudotriquetrum fo. *gracilens* (Cardot) Podpera, Bryum Gen. Monogr. Prodr. 16: 116. 1973.

Basionym: *Bryum gracilens* Cardot, 1909.

B. pseudotriquetrum fo. *gracillimum* (H. Arnell) Podpera, Bryum Gen. Monogr. Prodr. 16: 114. 1973.

Basionym: *Bryum ventricosum* fo. *gracillimum* H. Arnell, 1913.

B. pseudotriquetrum var. *grande* Podpera, Bryum Gen. Monogr. Prodr. 16: 108. 1973.

Type: Switzerland. Vallis, *Gams s.n.* Holotype: "H.Gs."

B. pseudotriquetrum fo. *gravetii* Podpera, Bryum Gen. Monogr. Prodr. 16: 11. 1973.

Type: Belgium. Mt. Pierre, *Gravet s.n.* Holotype: "H.V."

B. pseudotriquetrum fo. *humile-operculatum* (H. Winter) Podpera, Bryum Gen. Monogr. Prodr. 16: 80. 1973.

Basionym: *Bryum ventricosum* var. *humile-operculatum* H. Winter, 1910.

B. pseudotriquetrum fo. *hyalodontium* (C. Müller & Kindberg in Macoun) Podpera, Bryum Gen. Monogr. Prodr. 16: 80. 1973.

Basionym: *Bryum pseudotriquetrum* var. *hyalodontium* C. Müller & Kindberg in Macoun, 1892.

B. pseudotriquetrum var. *hyalodontium* C. Müller & Kindberg in Macoun, Cat. Canad. Pl., Musci 133. 1892.

Other use: *Bryum pseudotriquetrum* fo. *hyalodontium* (C. Müller & Kindberg in Macoun) Podpera, 1973.

B. pseudotriquetrum fo. *hydrophilum* (Kindberg) Podpera, Bryum Gen. Monogr. Prodr. 16: 92. 1973.

Basionym: *Bryum hydrophilum* Kindberg, 1889.

B. pseudotriquetrum fo. *immarginatum* Tosco, Webbia 28: 292. 1973.

Type: Italy. Gran Paradiso, Parco Nazionale, Val di Rhemes, presso baite Lavassey, 2180 m, *Benevolo*, 1971. Holotype: herb. Tosco.

B. pseudotriquetrum fo. *inflatum* Podpera, Bryum Gen. Monogr. Prodr. 16: 112. 1973.

Type: Norway. Lapponia, Talvik, *Bauer s.n.* Holotype: "H.P."

B. pseudotriquetrum fo. *inundatum* (Warnstorf) Podpera, Bryum Gen. Monogr. Prodr. 16: 92. 1973.

Basionym: *Bryum ventricosum* var. *inundatum* Warnstorf, 1905.

**B. pseudotriquetrum* fo. *larssonii* (C. E. O. Jensen) Podpera, Bryum Gen. Monogr. Prodr. 16: 79. 1973.

*invalid, basionym invalid (Article 33.2).

B. pseudotriquetrum fo. *latelimbatum* Podpera, Bryum Gen. Monogr. Prodr. 16: 95. 1973.

Type: Czechoslovakia. Bohemia: Manetin, Nectiny, *Bauer s.n.* Holotype: "H.P."

Bryum, continued.

B. pseudotriquetrum fo. *latifolium* (Lindberg) Podpera, Bryum Gen. Monogr. Prodr. 16: 93. 1973.
Basionym: *Bryum ventricosum* var. *latifolium* Lindberg, 1883.

B. pseudotriquetrum fo. *latifrons* Podpera, Bryum Gen. Monogr. Prodr. 16: 114. 1973.
Type: Czechoslovakia. Tatra Magna, Mlynica, *Krajina s.n.* Holotype: "H.P."

**B. pseudotriquetrum* fo. *laxirete* Podpera, Bryum Gen. Monogr. Prodr. 16: 46. 1973.
*invalid, single element not cited as holotype (Article 37.3).
Type: Germany. Baden, Grafenhausen, *Müller s.n.* (Musci Eur. Exsicc. 354). Herbaria: "H.Br., H.P."

B. pseudotriquetrum fo. *laxum* (Podpera in E. Bauer) Podpera, Bryum Gen. Monogr. Prodr. 16: 90. 1973.
Basionym: *Bryum ventricosum* fo. *laxum* Podpera in E. Bauer, 1912.

B. pseudotriquetrum fo. *leptoderma* Podpera, Bryum Gen. Monogr. Prodr. 16: 108. 1973.
Type: Yugoslavia. Celje, *Reichardt s.n.* Holotype: "H.V."

B. pseudotriquetrum fo. *leptomerum* Podpera, Bryum Gen. Monogr. Prodr. 16: 114. 1973.
Type: China. Yunnan, *Handel-Mazzetti 4764.* Holotype: "H.V."

B. pseudotriquetrum fo. *limbatum* Podpera, Bryum Gen. Monogr. Prodr. 16: 121. 1973.
Type: Czechoslovakia. Tatra Magna, Batizovske pleso, *Podpera s.n.* Holotype: "H.P."

B. pseudotriquetrum var. *lomense* Podpera, Bryum Gen. Monogr. Prodr. 16: 109. 1973.
Type: Norway. Lom, *Hagen s.n.* Holotype: "H.P."

B. pseudotriquetrum fo. *longedecurrens* (Mikutowicz) Podpera, Bryum Gen. Monogr. Prodr. 16: 92. 1973.
Basionym: *Bryum ventricosum* var. *longedecurrens* Mikutowicz, 1909.

B. pseudotriquetrum fo. *longicollum* Podpera, Bryum Gen. Monogr. Prodr. 16: 77. 1973.
Type: Czechoslovakia. Jihlava, Rancirov, *Zukal s.n.* Holotype: "H.M.N.Pr."

B. pseudotriquetrum fo. *longipes* Podpera, Bryum Gen. Monogr. Prodr. 16: 109. 1973.
Type: Austria. Stiria, Lungau, *Zwanziger s.n.* Herbarium not specified by author.

B. pseudotriquetrum fo. *longirete* Podpera, Bryum Gen. Monogr. Prodr. 16: 86. 1973.
Type: Italy. Venetia alta, Vollarsa, *Porta s.n.* Holotype: "H.V."

B. pseudotriquetrum fo. *longisetum* Podpera, Bryum Gen. Monogr. Prodr. 16: 80. 1973.
Type: Patagonia, Casa Otten, *Dusén s.n.* Holotype: "H.B.-H."

Bryum, continued.

B. pseudotriquetrum fo. *lorentzii* Podpera, Bryum Gen. Monogr. Prodr. 16: 122. 1973.

Type: Italy. Vallis Tellina, *Lorentz s.n.* Herbarium not specified by author.

B. pseudotriquetrum fo. *macropyndax* Podpera, Bryum Gen. Monogr. Prodr. 16: 78. 1973.

Type: Sweden. Jamtland, *Hassler s.n.* Holotype: "H.M."

B. pseudotriquetrum fo. *malochii* Podpera, Bryum Gen. Monogr. Prodr. 16: 87. 1973.

Type: Czechoslovakia. Bohemia: Plzen, *Maloch s.n.* Holotype: "H.P."

B. pseudotriquetrum fo. *margittaianum* Podpera, Bryum Gen. Monogr. Prodr. 16: 103. 1973.

Type: U.S.S.R. Rossia transcarpatica, Berehovo, *Margittai s.n.* Holotype: "H.P."

B. pseudotriquetrum fo. *microalpinum* Podpera, Bryum Gen. Monogr. Prodr. 16: 121. 1973.

Type: Austria. Stiria, Sinabel, *Breidler s.n.* Holotype: "H.P." Paratypes cited.

**B. pseudotriquetrum* fo. *minus* Podpera, Bryum Gen. Monogr. Prodr. 16: 121. 1973.

*invalid, single element not cited as holotype (Article 37.3).

Type: Sweden. Dalarne, *Arnell s.n.* (Musci Eur. Exsicc. 936). Herbaria: "H.N.N.Pr., H.P., H.V., H.Br."

B. pseudotriquetrum fo. *molle* Podpera, Bryum Gen. Monogr. Prodr. 16: 121. 1973.

Type: Czechoslovakia. Tatra Magna, Zadne Jatky, *Podpera s.n.* Holotype: "H.P."

B. pseudotriquetrum fo. *montanum* (Bomansson) Podpera, Bryum Gen. Monogr. Prodr. 16: 123. 1973.

Basionym: *Bryum ventricosum* var. *montanum* Bomansson, 1900.

B. pseudotriquetrum fo. *mucronatum* Podpera, Bryum Gen. Monogr. Prodr. 16: 83. 1973.

Type: Czechoslovakia. Slovakia: Hrabusice, *Vlach s.n.* Holotype: "H.P."

B. pseudotriquetrum var. *mughicola* Podpera, Bryum Gen. Monogr. Prodr. 16: 109. 1973.

Type: Czechoslovakia. Tatra Magna, val. Mengusovska, *Smarda s.n.* Holotype: "H.P."

B. pseudotriquetrum fo. *nematophorum* Podpera, Bryum Gen. Monogr. Prodr. 16: 96. 1973.

Type: Czechoslovakia. Brno, Cernovir, *Podpera s.n.* Holotype: "H.P." Paratypes cited.

B. pseudotriquetrum fo. *neomarchicum* (Warnstorf) Podpera, Bryum Gen. Monogr. Prodr. 16: 85. 1973.

Basionym: *Bryum pseudotriquetrum* var. *neomarchicum* Warnstorf, 1900.

Bryum, continued.

B. pseudotriquetrum var. *neomarchicum* Warnstorf, Verh. Bot. Vereins Prov. Brandenburg 42: 206. 1900.

Other use: *Bryum pseudotriquetrum* fo. *neomarchicum* (Warnstorf) Podpera, 1973.

B. pseudotriquetrum fo. *nevadense* (Podpera) Podpera, Bryum Gen. Monogr. Prodr. 16: 98. 1973.

Basionym: *Bryum pseudotriquetrum* var. *nevadense* Podpera, 1954.

Note: valid, error of bibliographic citation of basionym (Article 33.2), "*B. nevadense* Warnst."

B. pseudotriquetrum var. *nevadense* Podpera, Consp. Musc. Eur. 366. 1954.

Replaced name: *Bryum nevadense* Warnstorf, 1911.

Blocking name: *Bryum nevadense* C. Müller, 1879.

Other use: *Bryum pseudotriquetrum* fo. *nevadense* (Podpera) Podpera, 1973.

Note: new name, based on adoption of earlier epithet (Article 72.Note 1).

B. pseudotriquetrum fo. *norvegicum* (Kaurin & H. Arnell) Podpera, Bryum Gen. Monogr. Prodr. 16: 140. 1973.

Basionym: *Bryum elegans* var. *norvegicum* Kaurin & H. Arnell, 1896.

B. pseudotriquetrum fo. *obtusomucronatum* (Cardot) Podpera, Bryum Gen. Monogr. Prodr. 16: 83. 1973.

Basionym: *Bryum pseudotriquetrum* var. *obtusomucronatum* Cardot, 1909.

B. pseudotriquetrum var. *obtusomucronatum* Cardot, Bull. Soc. Bot. Genève, ser. 2, 1: 127. 1909.

Other use: *Bryum pseudotriquetrum* fo. *obtusomucronatum* (Cardot) Podpera, 1973.

B. pseudotriquetrum fo. *ovatulum* Podpera, Bryum Gen. Monogr. Prodr. 16: 114. 1973.

Type: U.S.A. North Carolina: Winston Salem, *Schallert s.n.* Holotype: "H.P."

B. pseudotriquetrum fo. *ovoideum* (Podpera) Podpera, Bryum Gen. Monogr. Prodr. 16: 78. 1973.

Basionym: *Bryum ventricosum* var. *ovoideum* Podpera, 1932.

B. pseudotriquetrum fo. *oxycentrum* Podpera, Bryum Gen. Monogr. Prodr. 16: 85. 1973.

Type: Canada. Biolog. Station, *Macoun*, 1908. Holotype: "H.M.-Roth."

B. pseudotriquetrum subsp. *percomatum* (Amann) Podpera, Bryum Gen. Monogr. Prodr. 16: 132. 1973.

Basionym: *Bryum percomatum* Amann, 1920.

B. pseudotriquetrum fo. *perdensum* Podpera, Bryum Gen. Monogr. Prodr. 16: 121. 1973.

Type: Sweden. Uppland, Vato, *Arnell*. Holotype: "H.P."

B. pseudotriquetrum var. *pilousii* Podpera, Bryum Gen. Monogr. Prodr. 16: 102. 1973.

Type: Czechoslovakia. Bohemia: Brdy, Kozicin, *Pilous s.n.* Holotype: "H.P."

B. pseudotriquetrum fo. *piriforme* Podpera, Bryum Gen. Monogr. Prodr. 16: 77. 1973.

Type: Germany. Schwarzwald, Albtal, *Linder s.n.* Holotype: "H.P."

Bryum, continued.

B. pseudotriquetrum fo. *planiusculum* Podpera, Bryum Gen. Monogr. Prodr. 16: 139. 1973.

Type: Sweden. Sarekgebiet, *Jensen*, 1902. Holotype: "H.P."

B. pseudotriquetrum fo. *platydictyum* Podpera, Bryum Gen. Monogr. Prodr. 16: 114. 1973.

Type: Czechoslovakia. Kromeriz, Postoupky, *Bauer s.n.* (Musci Eur. Exsicc. 1127b). Holotype: "H.P." Paratype cited.

B. pseudotriquetrum fo. *platyphyllum* (Podpera) Podpera, Bryum Gen. Monogr. Prodr. 16: 94. 1973.

Basionym: *Bryum pseudotriquetrum* subvar. *platyphyllum* Podpera, 1901.

Note: this combination is made again on page 121.

B. pseudotriquetrum subvar. *platyphyllum* Podpera, Rozpr. Ceské Akad. Ved, Tr. 2, Vedy Mat. Prír. 10(2): 30. 1901.

Other use: *Bryum pseudotriquetrum* fo. *platyphyllum* (Podpera) Podpera, 1973.

B. pseudotriquetrum fo. *propaguliferum* (H. Arnell & C. E. O. Jensen) Podpera, Bryum Gen. Monogr. Prodr. 16: 139. 1973.

Basionym: *Bryum crispulum* fo. *propaguliferum* H. Arnell & C. E. O. Jensen, 1910.

B. pseudotriquetrum fo. *propaguliferum* (Amann) Podpera, Bryum Gen. Monogr. Prodr. 16: 97. 1973.

Basionym: *Bryum ventricosum* var. *propaguliferum* Amann, 1918.

B. pseudotriquetrum fo. *psathyrum* Podpera, Bryum Gen. Monogr. Prodr. 16: 78. 1973.

Type: Sweden. Jamtland, *Hassler s.n.* Holotype: "H.M."

B. pseudotriquetrum fo. *pseudoduvalii* (Podpera) Podpera, Bryum Gen. Monogr. Prodr. 16: 91. 1973.

Basionym: *Bryum pseudotriquetrum* subsp. *pseudoduvalii* Podpera, 1901.

B. pseudotriquetrum subsp. *pseudoduvalii* Podpera, Rozpr. Ceské Akad. Ved, Tr. 2, Vedy Mat. Prír. 10(2): 31. 1901.

Other use: *Bryum pseudotriquetrum* fo. *pseudoduvalii* (Podpera) Podpera, 1973.

Note: rank assigned in Index Muscorum.

B. pseudotriquetrum fo. *pseudoelegans* (Amann) Podpera, Bryum Gen. Monogr. Prodr. 16: 122. 1973.

Basionym: *Bryum ventricosum* var. *pseudoelegans* Amann, 1918.

B. pseudotriquetrum fo. *punctatum* Podpera, Bryum Gen. Monogr. Prodr. 16: 95. 1973.

Type: Italy. Sardinia: Ovri, *Herzog s.n.* Holotype: "H.P."

B. pseudotriquetrum fo. *purpureum* (Corbière) Podpera, Bryum Gen. Monogr. Prodr. 16: 90. 1973.

Basionym: *Bryum pseudotriquetrum* var. *purpureum* Corbière, 1897.

B. pseudotriquetrum var. *purpureum* Corbière, Mém. Soc. Sci. Nat. Cherbourg 30: 287. 1897.

Other use: *Bryum pseudotriquetrum* fo. *purpureum* (Corbière) Podpera, 1973.

Bryum, continued.

B. pseudotriquetrum fo. *quarnboense* (Bomansson) Podpera, Bryum Gen. Monogr. Prodr. 16: 84. 1973.
Basionym: *Bryum quarnboense* Bomansson, 1903.

B. pseudotriquetrum fo. *ramentosum* (Dixon) Podpera, Bryum Gen. Monogr. Prodr. 16: 97. 1973.
Basionym: *Bryum ramentosum* Dixon, 1934.

B. pseudotriquetrum fo. *reflexum* (Mikutowicz) Podpera, Bryum Gen. Monogr. Prodr. 16: 86. 1973.
Basionym: *Bryum pseudotriquetrum* var. *reflexum* Mikutowicz, 1913.

B. pseudotriquetrum var. *reflexum* Mikutowicz, Bryoth. Balt. 215. 1913.
Other use: *Bryum pseudotriquetrum* fo. *reflexum* (Mikutowicz) Podpera, 1973.

B. pseudotriquetrum fo. *revolutum* Podpera, Bryum Gen. Monogr. Prodr. 16: 122. 1973.
Type: Czechoslovakia. Belanske Tatry, Havran, *Krajina s.n.* Holotype: "H.Pr." Paratype cited.

B. pseudotriquetrum fo. *riloense* Podpera, Bryum Gen. Monogr. Prodr. 16: 81. 1973.
Type: Bulgaria. Rila planina, *Podpera*, 1936. Holotype: "H."

**B. pseudotriquetrum* fo. *rothii* Podpera, Bryum Gen. Monogr. Prodr. 16: 114. 1973.
*invalid, single element not cited as holotype (Article 37.3).
Type: Germany. Hessen, Laubach, *Bauer s.n.* (Musci Eur. Exsicc. 419). Herbaria: "H.Gs., H.V., H.P., H.M.N.Pr." Additional specimens cited.

B. pseudotriquetrum fo. *sanguineum* Podpera, Bryum Gen. Monogr. Prodr. 16: 121. 1973.
Type: Switzerland. Wallis, Oberwald, *Culmann s.n.* Holotype: "H.P."

B. pseudotriquetrum fo. *scepusiense* Podpera, Bryum Gen. Monogr. Prodr. 16: 113. 1973.
Type: Czechoslovakia. Spis, Lubovna, *Hazslinszky s.n.* Holotype: "H.M.N.Pr."

B. pseudotriquetrum fo. *schallertii* Podpera, Bryum Gen. Monogr. Prodr. 16: 95. 1973.
Type: U.S.A. North Carolina: Winston Salem, *Schallert s.n.* Holotype: "H.P."

B. pseudotriquetrum fo. *schisticola* Podpera, Bryum Gen. Monogr. Prodr. 16: 123. 1973.
Type: China. Yunnan: Likiang, *Handel-Mazzetti 4289.* Holotype: "H.V." Paratype cited.

B. pseudotriquetrum fo. *semilimbatum* Podpera, Bryum Gen. Monogr. Prodr. 16: 112. 1973.
Type: Czechoslovakia. Vysoke Tatry, *Podpera s.n.* Holotype: "H.P."

B. pseudotriquetrum fo. *serratum* Boros ex Podpera, Bryum Gen. Monogr. Prodr. 16: 86. 1973.
Type: Belgium. Namur, *Delogne s.n.* Holotype: "H.V." Other indicated distribution: Austria, Czechoslovakia, Germany, Sweden.

Bryum, continued.

B. pseudotriquetrum fo. *sphaeromorphum* Podpera, Bryum Gen. Monogr. Prodr. 16: 79. 1973.
Type: Sweden. Isl. Frostviken, 600 m, *Hassler s.n.* Holotype: "H.M.Holm."

B. pseudotriquetrum fo. *squarrosum* (Warnstorf) Podpera, Bryum Gen. Monogr. Prodr. 16: 95. 1973.
Basionym: *Bryum ventricosum* var. *squarrosum* Warnstorf, 1905.

B. pseudotriquetrum fo. *stenocarpum* Podpera, Bryum Gen. Monogr. Prodr. 16: 113. 1973.
Type: Czechoslovakia. Liptovske hole, Suchy Hradek, *Smarda s.n.* Holotype: "H.P."

B. pseudotriquetrum fo. *strangulatum* (Mikutowicz) Podpera, Bryum Gen. Monogr. Prodr. 16: 79. 1973.
Basionym: *Bryum pseudotriquetrum* var. *strangulatum* Mikutowicz, 1908.
Note: valid, error of bibliographic citation of basionym (Article 33.2), "*B. ventricosum* var. *strangulatum* Mikut."

B. pseudotriquetrum var. *strangulatum* Mikutowicz, Bryoth. Balt. 11. 1908.
Other use: *Bryum pseudotriquetrum* fo. *strangulatum* (Mikutowicz) Podpera, 1973.

B. pseudotriquetrum fo. *subarcticum* Podpera, Bryum Gen. Monogr. Prodr. 16: 80. 1973.
Type: Norway. Finmark, *Ryan*, 1894. Herbarium not specified by author.

B. pseudotriquetrum fo. *submersum* (H. Winter) Podpera, Bryum Gen. Monogr. Prodr. 16: 92. 1973.
Basionym: *Bryum ventricosum* fo. *submersum* H. Winter, 1910.

B. pseudotriquetrum fo. *submuticum* (Philibert) Podpera, Bryum Gen. Monogr. Prodr. 16: 82. 1973.
Basionym: *Bryum submuticum* Philibert, 1901.

B. pseudotriquetrum fo. *subplanum* Podpera, Bryum Gen. Monogr. Prodr. 16: 81. 1973.
Type: U.S.S.R. Vladivostok, *Podpera s.n.* Holotype: "H.P." Paratypes cited.

B. pseudotriquetrum fo. *subrotundatum* Podpera, Bryum Gen. Monogr. Prodr. 16: 124. 1973.
Type: Czechoslovakia. Belanske Tatry, Zadne Jatky, *Podpera s.n.* Holotype: "H.P."

B. pseudotriquetrum var. *subrotundum* (Bridel) Gangulee, Mosses E. India 4: 994. 1974.
Basionym: *Bryum subrotundum* Bridel, 1817.

B. pseudotriquetrum fo. *subteres* (Bryhn & Ryan) Podpera, Bryum Gen. Monogr. Prodr. 16: 123. 1973.
Basionym: *Bryum ventricosum* var. *subteres* Bryhn & Ryan, 1907.

B. pseudotriquetrum fo. *supraalpinum* Podpera, Bryum Gen. Monogr. Prodr. 16: 123. 1973.
Type: Czechoslovakia. Tatra Magna, Hyncovo pleso, *Podpera s.n.* Holotype: "H.P." Paratypes cited.

Bryum, continued.

B. pseudotriquetrum fo. *traxleri* Podpera, Bryum Gen. Monogr. Prodr. 16: 81. 1973, "*traxlerii*."
Type: Austria. Salzburg, Weiseneck, 1700 m, *Traxler s.n.* Holotype: "H.P." Paratypes cited.

B. pseudotriquetrum var. *trevericum* Podpera, Bryum Gen. Monogr. Prodr. 16: 109. 1973.
Type: Germany. Saargebiet, *Freiberg s.n.* Holotype: "H.P."

B. pseudotriquetrum fo. *tumidulum* Podpera, Bryum Gen. Monogr. Prodr. 16: 78. 1973.
Type: Czechoslovakia. Krkonose, Kovarna, *Schiffner s.n.* Holotype: "H.Pr." Paratype cited.

B. pseudotriquetrum var. *turfosum* Podpera, Bryum Gen. Monogr. Prodr. 16: 108. 1973.
Type: Czechoslovakia. Bohemia: Veseli n.L., *Velenovsky s.n.* Holotype: "H.P."

B. pseudotriquetrum fo. *uncinatulum* (Latzel) Podpera, Bryum Gen. Monogr. Prodr. 16: 141. 1973.
Basionym: *Bryum ovatum* var. *uncinatulum* Latzel, 1926.

B. pseudotriquetrum fo. *unzeitigii* Podpera, Bryum Gen. Monogr. Prodr. 16: 116. pl. 8: s-v, y. 1973.
Type: Yugoslavia. Macedonia, Sivec, *Slavonovsky s.n.* Holotype: "H.P." Paratype cited.

B. pseudotriquetrum fo. *vestitum* (Brotherus) Podpera, Bryum Gen. Monogr. Prodr. 16: 97. 1973.
Basionym: *Bryum ventricosum* var. *vestitum* Brotherus, 1921.

B. pseudotriquetrum subsp. *viaeregiae* Podpera, Bryum Gen. Monogr. Prodr. 16: 141. pl. 15. 1973.
Type: Norway. Dovre, *Podpera s.n.* Holotype: "H.P."

B. pseudotriquetrum fo. *xeroticum* Podpera, Bryum Gen. Monogr. Prodr. 16: 113. 1973.
Type: Czechoslovakia. Straznice, Radejov, *Podpera s.n.* Holotype: "H.P." Paratype cited.

B. ptychothecium Bescherelle, Ann. Sci. Nat. Bot., ser. 7, 15: 66. 1892.
Other use: *Brachymenium ptychothecium* (Bescherelle) Ochi, 1963.

B. purpurascens (R. Brown) Bruch & W. P. Schimper in B.S.G., 1846.

B. purpurascens var. *debile* Podpera, Bryum Gen. Monogr. Prodr. 17: 216. 1973.
Type: Norway. Dovre, *Kaurin s.n.* Holotype: "H.M."

B. purpurascens subsp. *degenii* Podpera, Bryum Gen. Monogr. Prodr. 17: 217. 1973.
Type: Norway. Dovre, *Kaurin s.n.* Holotype: "H.L.D."

B. purpurascens var. *emarginatum* Podpera, Bryum Gen. Monogr. Prodr. 17: 216. 1973.
Type: Sweden. Torne Lappland, *Jäderholm s.n.* Holotype: "H.P."

B. purpurascens var. *grapeanum* Podpera, Bryum Gen. Monogr. Prodr. 17: 216. 1973.
Type: Sweden. Abisko, *Grape s.n.* Holotype: "H.M.H."

Bryum, continued.

B. purpurascens var. *kistrandense* Kaurin ex Podpera, Bryum Gen. Monogr. Prodr. 17: 216. 1973.
Type: Norway. Porsanger, *Kaurin*, 1894. Holotype: "H.L.D."

B. purpurascens subsp. *myliusii* (Hesselbo) Podpera, Bryum Gen. Monogr. Prodr. 17: 220. 1973.
Basionym: *Bryum myliusii* Hesselbo, 1910.

B. purpurascens subsp. *tessellatum* (Philibert) Podpera, Bryum Gen. Monogr. Prodr. 17: 221. 1973, "*tesselatum*."
Basionym: *Bryum tessellatum* Philibert, 1899.

B. purpurascens subsp. *treleasei* (Philibert) Podpera, Bryum Gen. Monogr. Prodr. 17: 221. 1973, "*treleasii*."
Basionym: *Bryum treleasei* Philibert, 1901.

B. purpureolucidum J. Fröhlich, Mitt. Thüring. Bot. Ges. 1(2-3): 66. 1955.
Note: not in Index Muscorum.

B. purpureum Philibert, Rev. Bryol. 13: 24. 1886.
Other use: *Bryum pallens* fo. *purpureum* (Philibert) Podpera, 1973.

B. pycnophyllum (Dixon) Mohamed, J. Bryol. 10: 435. 1979.
Basionym: *Bryum truncorum* var. *pycnophyllum* Dixon, 1922.

B. pygmaeoalpinum C. Müller & Kindberg in Macoun, Cat. Canad. Pl., Musci 126. 1892.
Other use: *Bryum cryophilum* subsp. *pygmaeoalpinum* (C. Müller & Kindberg in Macoun) Podpera, 1973.

B. pyriferum Crundwell & H. Whitehouse in Crundwell, During & D. G. Long, J. Bryol. 10: 108. f. 2. 1978.
Type: Spain. Canary Islands: Tenerife, above Las Meredes, *During 74362*. Holotype: CGE; isotype: GL.

B. quarnboense Bomansson, Rev. Bryol. 30: 99. 1903, "*qvarnboense*."
Other use: *Bryum pseudotriquetrum* fo. *quarnboense* (Bomansson) Podpera, 1973.

B. radiculosum Bridel, 1817.

B. radiculosum fo. *hegelmaieri* (Podpera) Margadant & During, Bekn. Fl. Ned. Blad. Leverm. 443. 1982.
Basionym: *Bryum erythrocarpum* var. *hegelmaieri* Podpera, 1922 [1923].
Note: valid, same combination published simultaneously at different ranks (Article 34.3).

B. radiculosum var. *hegelmaieri* (Podpera) Margadant & During, Bekn. Fl. Ned. Blad. Leverm. 443. 1982.
Basionym: *Bryum erythrocarpum* var. *hegelmaieri* Podpera, 1922 [1923].
Note: valid, same combination published simultaneously at different ranks (Article 34.3).

B. radiculosum subsp. *klinggraeffii* (W. P. Schimper in Klinggraeff) Margadant & During, Bekn. Fl. Ned. Blad. Leverm. 443. 1982.
Basionym: *Bryum klinggraeffii* W. P. Schimper in Klinggraeff, 1858.

Bryum, continued.

B. radiculosum var. *rubens* (Mitten) Margadant & During, Bekn. Fl. Ned. Blad. Leverm. 443. 1982.
Basionym: *Bryum rubens* Mitten, 1856.

B. radiculosum var. *ruderale* (Crundwell & Nyholm) Margadant & During, Bekn. Fl. Ned. Blad. Leverm. 443. 1982.
Basionym: *Bryum ruderale* Crundwell & Nyholm, 1963.

B. radiculosum fo. *violaceum* (Crundwell & Nyholm) Margadant & During, Bekn. Fl. Ned. Blad. Leverm. 443. 1982.
Basionym: *Bryum violaceum* Crundwell & Nyholm, 1963.

B. ramentosum Dixon, Rev. Bryol. Lichénol. 7: 108. 1934.
Other use: *Bryum pseudotriquetrum* fo. *ramentosum* (Dixon) Podpera, 1973.

B. ramosum (W. J. Hooker) Mitten, 1859.

B. ramosum var. *latifolium* Ochi, Bryologist 60: 8. 1957.
Other use: *Bryum truncorum* var. *latifolium* (Ochi) Ochi, 1963.

B. recurvifolium Taylor, Ann. Mag. Nat. Hist., ser. 1, 11: 208. 1843.
Other use: *Oxystegus recurvifolius* (Taylor) Zander, 1982 [1983], *Paraleptodontium recurvifolium* (Taylor) D. G. Long, 1982.

B. recurvulum Mitten, 1859.

B. recurvulum var. *flexicaule* (C. Müller) Ochi, Advancing Frontiers Pl. Sci. 4: 118. 1963.
Basionym: *Bryum flexicaule* C. Müller, 1896.

B. reedii H. Robinson, Bryologist 69: 107. f. 1-5. 1966.
Type: U.S.A. Maryland: Baltimore Co., Red Run, Dolfield Rd., Soldiers Delight, *Reed 69886*. Holotype: US; isotype: herb. Reed.

B. reflexifolium (Ochi) Ochi in Noguchi & Iwatsuki, Bull. Univ. Mus. Univ. Tokyo 8: 261. 1975.
Basionym: *Bryum pseudoalpinum* var. *reflexifolium* Ochi, 1964.

B. retusifolium Cardot & Potier de la Varde, 1923.

B. retusifolium var. *heterophyllum* Cardot in Dixon ex Gangulee, Mosses E. India 4: 976. f. 469. 1974.
Type: India. Shembaganur, *Queste*, 1911. Holotype: BM.

B. richardsii A. J. Sharp, J. Hattori Bot. Lab. 54: 183. f. 1. 1983.
Type: Mexico. Oaxaca: below gap in Sierra Juarez toward Tuxtepec, 9000 feet, *Sharp 9840*. Holotype: TENN; isotypes: DUKE, FA, MEXU, MICH, NICH, NY, US.
Note: invalid, no Latin description (Article 36.1), in Ochi, J. Fac. Educ. Tottori Univ., Nat. Sci. 29: 152. 1980.

B. roellii Philibert, Rev. Bryol. 17: 56. 1890, "*roelli*."
Other use: *Bryum pendulum* subsp. *roellii* (Philibert) Podpera, 1973.

B. rotundifolium Ochi, J. Fac. Educ. Tottori Univ., Nat. Sci. 29: 87. f. 18. 1980.
Replaced name: *Anomobryum robustum* Brotherus in Herzog, 1916.
Blocking name: *Bryum robustum* Hampe, 1856.

B. rubens Mitten, Hooker's J. Bot. Kew Gard. Misc. 8: 232. 1856.
Other use: *Bryum radiculosum* var. *rubens* (Mitten) Margadant & During, 1982.

Bryum, continued.

B. rubrobulbiferum Ochi, J. Fac. Educ. Tottori Univ., Nat. Sci. 34: 49. 1985.
Replaced name: *Anomobryum bulbiferum* E. B. Bartram, 1942.
Blocking name: *Bryum bulbiferum* Mathieu, 1853.

B. rubromarginatum Ochi, J. Fac. Educ. Tottori Univ., Nat. Sci. 31: 38. 1982.
Replaced name: *Rhodobryum chilense* Thériot, 1924.
Blocking name: *Bryum chilense* Reichardt, 1870.

B. ruderale Crundwell & Nyholm, Bot. Not. 116: 95. 1963.
Type: Sweden. Bohuslan: Lycke, W of Stora Ryr, *Larsson & Persson*, 1930.
Holotype: LD. Other indicated distribution: Belgium, British Isles, Canada (Ontario), Denmark, Egypt, France, Hungary, Italy, Poland, U.S.S.R., U.S.A. (Missouri, Texas), Yugoslavia.
Other use: *Bryum radiculosum* var. *ruderale* (Crundwell & Nyholm) Margadant & During, 1982.

B. ruedianum Amann, Fl. Mouss. Suisse 1: 128. 1918.
Other use: *Bryum lisae* var. *ruedianum* (Amann) Margadant, 1972.

B. rufifolium (Dixon) Demaret & R. Wilczek in R. Wilczek & Demaret, Bull. Jard. Bot. Natl. Belgique 52: 458. 1982.
Basionym: *Bryum capillare* subsp. *rufifolium* Dixon, 1924.

B. ruppinense Warnstorf, Verh. Bot. Vereins Prov. Brandenburg 35: 129. 1894.
Other use: *Bryum algovicum* var. *ruppinense* (Warnstorf) Margadant, 1972.

B. rutilans Bridel, 1826.

B. rutilans subsp. *pearyanum* (Bryhn) Podpera, Bryum Gen. Monogr. Prodr. 16: 67. 1973.
Basionym: *Bryum pearyanum* Bryhn, 1908.

B. rutilans var. *subelimbatum* (Bryhn & Ryan) Podpera, Bryum Gen. Monogr. Prodr. 16: 66. 1973.
Basionym: *Bryum oeneum* var. *subelimabatum* Bryhn & Ryan, 1907.

B. rutilans subsp. *subrutilans* (Kindberg) Podpera, Bryum Gen. Monogr. Prodr. 16: 66. 1973.
Basionym: *Bryum subrutilans* Kindberg, 1903.

B. rutilans var. *zonatiforme* (Kindberg) Podpera, Bryum Gen. Monogr. Prodr. 16: 66. 1973, "*zonatiformis*."
Basionym: *Bryum zonatiforme* Kindberg, 1896.

B. sagittifolium Culmann, Rev. Bryol. 35: 17. f. 1-6. 1908, "*sagittaefolium*."
Other use: *Bryum weigelii* var. *sagittifolium* (Culmann) Pilous in Podpera, 1973.

B. saharae Dixon, J. Bot. 69: 286. 1931.
Other use: *Bryum inclinatum* var. *saharae* (Dixon) Podpera, 1973.

B. sarekense H. Arnell & C. E. O. Jensen, Naturwiss. Untersuch. Sarekgebirges Schwed.-Lappl., Bot. 3(2-3): 150. f. 10. 1910.
Other use: *Bryum lisae* subsp. *sarekense* (H. Arnell & C. E. O. Jensen) Margadant, 1972.

B. savicziae Schljakov, Bot. Mater. Otd. Sporov. Rast. 7: 230. pl. 2. 1959.
Note: not in Index Muscorum.

Bryum, continued.

B. saxatile I. Hagen, Tromsø Mus. Aarsh. 21-22(2): 170. 1901.
Other use: *Bryum lisae* var. *saxatile* (I. Hagen) Margadant, 1972.

B. saxonicum I. Hagen, Kongel. Norske Vidensk. Selsk. Skr. (Trondheim) 1904(1): 10. 1905.
Other use: *Bryum lisae* var. *saxonicum* (I. Hagen) Margadant, 1972.

B. scalariforme E. Jørgensen, Forh. Vidensk.-Selsk. Christiania 1894(8): 79. 1894.
Other use: *Bryum inclinatum* fo. *scalariforme* (E. Jørgensen) Podpera, 1973.

B. schimperi C. Müller, Syn. Musc. Frond. 1: 334. 1848.
Replaced name: *Bryum rutilans* B.S.G., 1846.
Blocking name: *Bryum rutilans* Bridel, 1826.
Other use: *Pohlia nutans* subsp. *schimperi* (C. Müller) Nyholm, 1969.

B. schleicheri Schwägrichen, 1816.

B. schleicheri var. *ahaggarense* Thériot, Bull. Soc. Hist. Nat. Afrique N. 22: 167. pl. 6: f. 2. 1931.
Other use: *Bryum turbinatum* var. *ahaggarense* (Thériot) Podpera, 1973.

B. schleicheri var. *bosniacum* Warnstorf, Allg. Bot. Z. Syst. 5(Beih. 1): 30. 1899.
Other use: *Bryum turbinatum* fo. *bosniacum* (Warnstorf) Podpera, 1973.

B. schleicheri var. *flaccifolium* I. Hagen, Nyt Mag. Naturvidensk. 38: 337. 1900 [1901].
Other use: *Bryum turbinatum* fo. *flaccifolium* (I. Hagen) Podpera, 1973.

B. schleicheri fo. *gemmicladum* Loeske, Hedwigia 47: 182. 1908.
Other use: *Bryum turbinatum* fo. *gemmicladum* (Loeske) Podpera, 1973.

B. schleicheri fo. *heterophyllum* Thériot in Amann, Rev. Bryol. 51: 21. 1924.
Other use: *Bryum turbinatum* fo. *heterophyllum* (Thériot in Amann) Podpera, 1973.

B. schleicheri var. *patagonicum* Brotherus, Kongl. Svenska Vetensk. Acad. Handl. 63(10): 42. 1923.
Other use: *Bryum turbinatum* fo. *patagonicum* (Brotherus) Podpera, 1973.

B. schleicheri fo. *peracutifolium* Thériot in Maire, Mém. Soc. Hist. Nat. Afrique N. 3: 45. 1933.
Other use: *Bryum turbinatum* fo. *peracutifolium* (Thériot in Maire) Podpera, 1973.

B. schleicheri fo. *polygamum* Podpera, Veröff. Geobot. Inst. Rübel Zürich 1: 251. 1924.
Other use: *Bryum turbinatum* fo. *polygamum* (Podpera) Podpera, 1973.

B. schleicheri fo. *stenophyllum* Thériot in Maire, Mém. Soc. Hist. Nat. Afrique N. 3: 45. 1933.
Other use: *Bryum turbinatum* fo. *stenophyllum* (Thériot in Maire) Podpera, 1973.

**B. semiovatum* Bryhn & Ryan, Rep. Second Norweg. Arctic Exped. "Fram" 1898-1902, Mosses 2(11): 87. 1907.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Bryum semiovatum* Bridel, 1827.
Other use: *Bryum inclinatum* var. *semiovatum* Podpera, 1973.

Bryum, continued.

B. setchellii Cardot & Thériot, Univ. Calif. Publ. Bot. 2(13): 302. pl. 28: f. 2. 1906.
Other use: *Bryum inclinatum* var. *setchellii* (Cardot & Thériot) Podpera, 1973.

B. sibericum Lindberg & H. Arnell, Kongl. Svenska Vetensk. Acad. Handl. 23(10): 37. 1890.
Other use: *Bryum pallens* subsp. *sibericum* (Lindberg & H. Arnell) Podpera, 1973.

B. simii Schelpe in Magill & Schelpe, Mem. Bot. Surv. South Africa 43: 7. 1979.
Replaced name: *Bryum acuminatum* Sim, 1926.
Blocking name: *Bryum acuminatum* (Hoppe & Hornschuch) Bruch & W. P. Schimper, 1839.

B. simmonsii Bryhn & Ryan, Rep. Second Norweg. Arctic Exped. "Fram" 1898-1902, Mosses 2(11): 94. 1907.
Other use: *Bryum inclinatum* var. *simmonsii* (Bryhn & Ryan) Podpera, 1973.

B. simulans Brotherus, Symb. Sin. 4: 56. 1929.
Other use: *Bryum neodamense* var. *simulans* (Brotherus) Podpera, 1973.

**B. sinense* Mohamed, J. Bryol. 10: 439. 1979.
*illegitimate, type of earlier name included (Article 63.1).
Replaced name: *Bryum crassicostatum* Brotherus, 1927.
Blocking name: *Bryum crassicostatum* C. Müller, 1898.
Correct name: *Bryum hawaiicum* Hoe, 1974.

B. speciosum Voit in Sturm, Deutschl. Fl., Abt. II, Cryptog. 2(14): illustration. 1813.
Other use: *Bryum pallens* fo. *speciosum* (Voit in Sturm) Podpera, 1973.

**B. splachnoides* (Harvey in W. J. Hooker) C. Müller, 1848.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Bryum splachnoides* Dickson ex Withering, 1801.

B. splachnoides subsp. *lipopae* Thériot & Potier de la Varde, Rev. Bryol. Lichénol. 4: 67. pl. 5: f. 2. 1932.
Other use: *Bryum cellulare* var. *lipopae* (Thériot & Potier de la Varde) Podpera, 1973.

B. splachnoides var. *mucronatum* Potier de la Varde, Rev. Bryol. Lichénol. 6: 144. 1934.
Other use: *Bryum cellulare* fo. *mucronatum* (Potier de la Varde) Podpera, 1973.

B. srilankenese Mohamed, J. Bryol. 12: 25. f. 2. 1982.
Type: Sri Lanka. Central Province, *Thwaites CM121*. Holotype: BM; isotype: H.

B. stenotrichum C. Müller, Flora 70: 219. 1887.
Other use: *Bryum inclinatum* var. *stenotrichum* (C. Müller) Podpera, 1973.

B. stenotrichum var. *anomalum* (Ruthe ex Warnstorf) Ochyra & Szmajda, Fragm. Florist. Geobot. 24: 140. 1978.
Basionym: *Bryum anomalum* Ruthe ex Warnstorf, 1904.

Bryum, continued.

B. stenotrichum var. *biddlecomiae* (Austin) E. Lawton, Moss Fl. Pacific Northwest 174. 1971.
Basionym: *Bryum biddlecomiae* Austin, 1877.

B. stenotrichum var. *fissum* (Ruthe) Ochyra & Szmajda, Fragm. Florist. Geobot. 24: 140. 1978.
Basionym: *Bryum fissum* Ruthe, 1897.

B. stygium Amann, Bull. Soc. Vaud. Sci. Nat. 56: 134. 1928.
Other use: *Bryum algovicum* var. *stygium* (Amann) Margadant, 1972.

B. subacutum H. Arnell, Ark. Bot. 15(8): 65. 1918.
Other use: *Bryum inclinatum* var. *subacutum* (H. Arnell) Podpera, 1973.

B. subcyclophyllum Cardot, Bull. Soc. Bot. Genève, ser. 2, 1: 127. 1909.
Other use: *Bryum tortifolium* subsp. *subcyclophyllum* (Cardot) Pilous in Podpera, 1973.

B. subdrepanocarpum Cardot & Thériot, Bot. Gaz. (Crawfordsville) 37: 374. pl. 22: f. 2. 1904.
Other use: *Bryum pallens* subsp. *subdrepanocarpum* (Cardot & Thériot) Podpera, 1973.

B. subexcurrens Philibert, Rev. Bryol. 28: 26. 1901.
Other use: *Bryum pallens* fo. *subexcurrens* (Philibert) Podpera, 1973.

B. subfoveolatum Bryhn & Ryan, Rep. Second Norweg. Arctic Exped. "Fram" 1898-1902, Mosses 2(11): 92. 1907.
Other use: *Bryum inclinatum* var. *subfoveolatum* (Bryhn & Ryan) Podpera, 1973.

B. subglobosum Schliephacke, Flora 71: 176. 1888.
Other use: *Bryum lisae* var. *subglobosum* (Schliephacke) Margadant, 1972.

B. submersum Limpricht in E. Bauer, Mitt. Bad. Bot. Vereins 123-126: 223. 1894.
Other use: *Bryum turbinatum* fo. *submersum* (Limpricht in E. Bauer) Podpera, 1973.

B. submicans Kindberg, Rev. Bryol. 32: 34. 1905.
Other use: *Bryum arcticum* fo. *submicans* (Kindberg) Podpera, 1973.

B. submucronatum Philibert, Rev. Bryol. 26: 25. 1899.
Other use: *Bryum calophyllum* subsp. *submucronatum* (Philibert) Podpera, 1973.

B. submuticum Philibert, Rev. Bryol. 28: 28. 1901.
Other use: *Bryum pseudotriquetrum* fo. *submuticum* (Philibert) Podpera, 1973.

B. subneodamense Kindberg, Rev. Bryol. 32: 34. 1905.
Other use: *Bryum neodamense* var. *subneodamense* (Kindberg) Podpera, 1973.

B. subobtusifolium C. Müller, Bot. Centralbl. 16: 94. 1883.
Other use: *Bryum cryophilum* subsp. *subobtusifolium* (C. Müller) Pilous in Podpera, 1973.

B. suborbiculare Philibert, Rev. Bryol. 28: 31. 1901.
Other use: *Bryum turbinatum* subsp. *suborbiculare* (Philibert) Podpera, 1973.

Bryum, continued.

B. subpurpurascens Kindberg in Macoun, Cat. Canad. Pl., Musci 119. 1892.
Other use: *Bryum pallens* fo. *subpurpurascens* (Kindberg in Macoun) Podpera, 1973.

B. subrotundum Bridel, Muscol. Recent. Suppl. 3: 29. 1817.
Other use: *Bryum pseudotriquetrum* var. *subrotundum* (Bridel) Gangulee, 1974.

B. subrutilans Kindberg, Hedwigia 42(Beibl. 1): 17. 1903.
Other use: *Bryum rutilans* subsp. *subrutilans* (Kindberg) Podpera, 1973.

B. subverticillatum (Brotherus) Ochi, J. Fac. Educ. Tottori Univ., Nat. Sci. 30: 29. 1981.
Basionym: *Rhodobryum subverticillatum* Brotherus, 1927.

B. sysphinctum Limpricht, Jahresber. Schles. Ges. Vaterl. Cult. 60: 240. 1883.
Other use: *Bryum lisae* var. *sysphinctum* (Limpricht) Margadant, 1972.

B. tardum Bomansson, Rev. Bryol. 30: 87. 1903.
Other use: *Bryum lisae* var. *tardum* (Bomansson) Margadant, 1972.

B. teretiusculum W. J. Hooker, 1836.

B. teretiusculum var. *reflexifolium* (Ochi) Ochi in Noguchi in H. Hara, Fl. E. Himalaya 1: 558. 1966.
Basionym: *Bryum pseudoalpinum* var. *reflexifolium* Ochi, 1964.

**B. terrestre* I. Hagen, Tromsø Mus. Aarsh. 21-22(2): 142. 1901.
*illegitimate, type of earlier name included (Article 63.1).
Correct name: *Bryum dusenii* Arnold, 1901.
Other use: *Bryum inclinatum* var. *terrestre* Podpera, 1973.

B. tessellatum Philibert, Rev. Bryol. 26: 60. 1899.
Other use: *Bryum purpurascens* subsp. *tessellatum* (Philibert) Podpera, 1973.

B. timmiostomoides Philibert, Rev. Bryol. 25: 49. 1898.
Other use: *Bryum calophyllum* subsp. *timmiostomoides* (Philibert) Podpera, 1973.

B. tisserantii Potier de la Varde, 1928.

B. tisserantii var. *sublimbatum* Potier de la Varde, Rev. Bryol. Lichénol. 7: 234. 1935.
Other use: *Mnium sublimbatum* (Potier de la Varde) Ochi, 1972.

**B. tomentosum* (E. Jørgensen) I. Hagen, 1901.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Bryum tomentosum* (Swartz ex Bridel) Swartz, 1806.

B. tomentosum var. *subsphaericum* Bryhn & Ryan, Rep. Second Norweg. Arctic Exped. "Fram" 1898-1902, Mosses 2(11): 112. 1907.
Other use: *Bryum arcticum* fo. *subsphaericum* (Bryhn & Ryan) Podpera, 1973.

B. torquatum Mohamed, J. Bryol. 10: 454. f. 29, 33. 1979.
Type: Jamaica. St. Andrew: Bellevue House, Port Royal Range nr Kingston, *Robbins 7*. Holotype: UCWI; isotype: CANM. Other indicated distribution: Brazil (Rio de Janeiro).

Bryum, continued.

B. tortifolium Bridel, 1827.

B. tortifolium subsp. *associatum* Podpera ex Pilous in Podpera, Bryum Gen. Monogr. Prodr. 16: 29. 1973.

Replaced name: *Bryum cyclophylloides* Bryhn & Ryan, 1907.

B. tortifolium subsp. *cyclophylloides* (Kindberg) Pilous in Podpera, Bryum Gen. Monogr. Prodr. 16: 29. 1973.

Basionym: *Bryum cyclophylloides* Kindberg, 1905.

B. tortifolium var. *remyi* (Gardet) Pilous in Podpera, Bryum Gen. Monogr. Prodr. 16: 28. 1973.

Basionym: *Bryum cyclophyllum* var. *remyi* Gardet, 1928.

B. tortifolium subsp. *subcyclophyllum* (Cardot) Pilous in Podpera, Bryum Gen. Monogr. Prodr. 16: 29. 1973.

Basionym: *Bryum subcyclophyllum* Cardot, 1909.

B. treleasei Philibert, Rev. Bryol. 28: 35. 1901, "*treeleasii*."

Other use: *Bryum purpurascens* subsp. *treleasei* (Philibert) Podpera, 1973.

B. truncorum (Bridel) Bridel, 1819 [1818].

B. truncorum var. *latifolium* (Ochi) Ochi, Advancing Frontiers Pl. Sci. 4: 125. 1963.

Basionym: *Bryum ramosum* var. *latifolium* Ochi, 1957.

Note: invalid, basionym not cited (Article 33.2), in Rev. Bry. Japan 109. 1959.

B. truncorum var. *pycnophyllum* Dixon, S. African J. Sci. 18: 321. 1922.

Other use: *Bryum pycnophyllum* (Dixon) Mohamed, 1979.

B. turbinatum (Hedwig) Turner, 1804.

B. turbinatum subsp. *affine* (Warnstorf) Podpera, Bryum Gen. Monogr. Prodr. 16: 236. 1973.

Basionym: *Bryum turbinatum* var. *affine* Warnstorf, 1905.

B. turbinatum var. *affine* Warnstorf, Krypt.-Fl. Brandenburg, Laubm. 2: 504. 1905.

Other use: *Bryum turbinatum* subsp. *affine* (Warnstorf) Podpera, 1973.

B. turbinatum var. *ahaggarense* (Thériot) Podpera, Bryum Gen. Monogr. Prodr. 16: 250. 1973.

Basionym: *Bryum schleicheri* var. *ahaggarense* Thériot, 1931.

B. turbinatum fo. *alvarense* (H. Arnell & Medelius) Podpera, Bryum Gen. Monogr. Prodr. 16: 229. 1973.

Basionym: *Bryum alvarense* H. Arnell & Medelius, 1921.

B. turbinatum subsp. *angustirete* Podpera, Bryum Gen. Monogr. Prodr. 16; 238. 1973.

Type: Czechoslovakia. Slovakia: Spiske Podhradie, *Gyroeffy s.n.* Holotype: "H.P."

B. turbinatum fo. *aristulatum* Podpera, Bryum Gen. Monogr. Prodr. 16: 235. 1973.

Type: Germany. Saxonia, Gautsch, *Moenkemeyer*, 1908. Holotype: "H.P." Paratypes cited.

Bryum, continued.

B. turbinatum fo. *auriculatum* (Podpera) Podpera, Bryum Gen. Monogr. Prodr. 16: 229. 1973.

Basionym: *Bryum turbinatum* var. *auriculatum* Podpera, 1924.

B. turbinatum var. *auriculatum* Podpera, Veröff. Geobot. Inst. Rübel Zürich 1: 251. 1924.

Other use: *Bryum turbinatum* fo. *auriculatum* (Podpera) Podpera, 1973.

B. turbinatum fo. *bosniacum* (Warnstorf) Podpera, Bryum Gen. Monogr. Prodr. 16: 247. 1973.

Basionym: *Bryum schleicheri* var. *bosniacum* Warnstorf, 1899.

B. turbinatum fo. *brachyphyllum* (Amann) Podpera, Bryum Gen. Monogr. Prodr. 16: 233. 1973.

Basionym: *Bryum turbinatum* var. *brachyphyllum* Amann, 1933.

Note: this combination is made again on page 256.

B. turbinatum var. *brachyphyllum* Amann, Fl. Mouss. Suisse 3: 85. 1933.

Other use: *Bryum turbinatum* fo. *brachyphyllum* (Amann) Podpera, 1973.

B. turbinatum fo. *cataractarum* Podpera, Bryum Gen. Monogr. Prodr. 16: 231. 1973.

Type: Yugoslavia. Dalmatia, *Latzel s.n.* Holotype: "H.P."

B. turbinatum fo. *caviusculum* Podpera, Bryum Gen. Monogr. Prodr. 16: 254. 1973.

Type: Austria. Tirolia, Innsbruck, *Stolz s.n.* Holotype: "H.Oen." Paratypes cited.

B. turbinatum fo. *concavum* Podpera, Bryum Gen. Monogr. Prodr. 16: 253. pl. 35: n-p, r-v, y. 1973.

Type: Switzerland. Perisvare pr. Abisko, *Podpera s.n.* Holotype: "H.P." Paratypes cited.

B. turbinatum fo. *conspicuum* (Podpera) Podpera, Bryum Gen. Monogr. Prodr. 16: 233. 1973.

Basionym: *Bryum conspicuum* Podpera, 1901.

B. turbinatum fo. *crassinervium* (Amann) Podpera, Bryum Gen. Monogr. Prodr. 16: 232. 1973.

Basionym: *Bryum turbinatum* var. *crassinervium* Amann, 1920.

B. turbinatum var. *crassinervium* Amann, Bull. Soc. Vaud. Sci. Nat. 53: 98. 1920.

Other use: *Bryum turbinatum* fo. *crassinervium* (Amann) Podpera, 1973.

**B. turbinatum* fo. *elatum* Osterald ex Podpera, Bryum Gen. Monogr. Prodr. 16: 231. 1973.

*invalid, single element not cited as holotype (Article 37.3).

Type: Germany. Borussia, Berlin, *Osterwald* (Musci Eur. Exsicc. 933). Herbaria: "H.Gs., H.V., H.M.N.Pr." Additional specimens cited.

B. turbinatum fo. *estrangulatum* (Amann) Podpera, Bryum Gen. Monogr. Prodr. 16: 228. 1973.

Basionym: *Bryum turbinatum* var. *estrangulatum* Amann, 1918.

B. turbinatum var. *estrangulatum* Amann, Fl. Mouss. Suisse 2: 393. 1918.

Other use: *Bryum turbinatum* fo. *estrangulatum* (Amann) Podpera, 1973.

Bryum, continued.

B. turbinatum fo. *flaccifolium* (I. Hagen) Podpera, Bryum Gen. Monogr. Prodr. 16: 246. 1973.
Basionym: *Bryum schleicheri* var. *flaccifolium* I. Hagen, 1900 [1901].

B. turbinatum fo. *flagellaceum* Podpera, Bryum Gen. Monogr. Prodr. 16: 230. 1973.
Type: Germany. Borussia, Spandau, *Loeske s.n.* Holotype: "H.Ls."

B. turbinatum fo. *fuscum* (Mikutowicz) Podpera, Bryum Gen. Monogr. Prodr. 16: 237. 1973.
Basionym: *Bryum jaapianum* var. *fuscum* Mikutowicz, 1910.

B. turbinatum fo. *gemmicladum* (Loeske) Podpera, Bryum Gen. Monogr. Prodr. 16: 245. 1973.
Basionym: *Bryum schleicheri* fo. *gemmicladum* Loeske, 1908.

B. turbinatum fo. *gracile* Podpera, Bryum Gen. Monogr. Prodr. 16: 245. 1973.
Type: Austria. Stiria, Krumpen, 1400 m, *Breidler s.n.* Holotype: "H.L.D."

B. turbinatum fo. *gracilifolium* (Bescherelle) Podpera, Bryum Gen. Monogr. Prodr. 16: 233. 1973.
Basionym: *Bryum turbinatum* var. *gracilifolium* Bescherelle, 1882.

B. turbinatum var. *gracilifolium* Bescherelle, Cat. Mous. Algérie 26. 1882.
Other use: *Bryum turbinatum* fo. *gracilifolium* (Bescherelle) Podpera, 1973.

B. turbinatum var. *haussknechtii* Podpera, Bryum Gen. Monogr. Prodr. 16: 248. pl. 34: x. 1973.
Type: Turkey. Berytdagh, 2500 m, *Haussknecht*, 1865. Holotype: "H.V."

B. turbinatum fo. *helvetica* Podpera, Bryum Gen. Monogr. Prodr. 16: 245. 1973.
Type: Switzerland. Engadin, *Branger s.n.* Holotype: "H.Gs." Paratypes cited.

B. turbinatum fo. *heterophyllum* (T. Jensen) Podpera, Bryum Gen. Monogr. Prodr. 16: 230. 1973.
Basionym: *Bryum turbinatum* var. *heterophyllum* T. Jensen, 1872.

**B. turbinatum* fo. *heterophyllum* (Thériot in Amann) Podpera, Bryum Gen. Monogr. Prodr. 16: 246. 1973.
*illegitimate, later homonym in same species (Article 64.4).
Basionym: *Bryum schleicheri* fo. *heterophyllum* Thériot in Amann, 1924.
Earlier name: *Bryum turbinatum* var. *heterophyllum* T. Jensen, 1872.

B. turbinatum var. *heterophyllum* T. Jensen, Bot. Tidsskr. 5: 259. 1872.
Other use: *Bryum turbinatum* fo. *heterophyllum* (T. Jensen) Podpera, 1973.

B. turbinatum fo. *imbricatum* (W. P. Schimper in Paris) Podpera, Bryum Gen. Monogr. Prodr. 16: 229. 1973.
Basionym: *Bryum turbinatum* var. *imbricatum* W. P. Schimper in Paris, 1894.

**B. turbinatum* subfo. *imbricatum* Podpera, Bryum Gen. Monogr. Prodr. 16: 253. 1973.
*invalid, single element not cited as holotype (Article 37.3).
Type: no element cited by author.

B. turbinatum var. *imbricatum* W. P. Schimper in Paris, Index Bryol. 220. 1894.
Other use: *Bryum turbinatum* fo. *imbricatum* (W. P. Schimper in Paris) Podpera, 1973.

Bryum, continued.

B. turbinatum fo. *inundatum* Podpera, Bryum Gen. Monogr. Prodr. 16: 246. 1973.

Type: Czechoslovakia. Tatra Magna, *Podpera s.n.* Holotype: "H.P."

B. turbinatum subsp. *jaapianum* (Warnstorf) Podpera, Bryum Gen. Monogr. Prodr. 16: 236. 1973.

Basionym: *Bryum jaapianum* Warnstorf, 1904.

B. turbinatum fo. *lacustre* Leiner ex Podpera, Bryum Gen. Monogr. Prodr. 16: 232. 1973.

Type: Germany. Baden, Constanz, *Leiner*, 1859. Holotype: "H.L.-D."

B. turbinatum fo. *latifrons* Podpera, Bryum Gen. Monogr. Prodr. 16: 230. 1973.

Type: Norway. Dovre, *Zetterstedt*, 1870. Holotype: "H.L.D."

B. turbinatum fo. *laxum* (Mikutowicz) Podpera, Bryum Gen. Monogr. Prodr. 16: 237. 1973.

Basionym: *Bryum jaapianum* fo. *laxum* Mikutowicz, 1909.

B. turbinatum subsp. *liernense* Podpera, Bryum Gen. Monogr. Prodr. 16: 239. pl. 32: j-o. 1973.

Type: Norway. Lierne, *Hassler*, 1909. Holotype: "H.M."

B. turbinatum fo. *longisetum* Podpera, Bryum Gen. Monogr. Prodr. 16: 229. 1973.

Type: Austria. Moosbrunn, *Juratzka s.n.* Holotype: "H.V." Paratypes cited.

B. turbinatum fo. *luxurians* Bruch & W. P. Schimper, Bryol. Eur. 4: 137 (fasc. 6-9. Monogr. 67). 1839.

Note: redundant combination in Podpera, Bryum Gen. Monogr. Prod. 16: 230. 1973.

B. turbinatum fo. *molluscum* (De Notaris) Podpera, Bryum Gen. Monogr. Prodr. 16: 246. 1973.

Basionym: *Bryum turbinatum* var. *molluscum* De Notaris, 1869.

B. turbinatum var. *molluscum* De Notaris, Atti R. Univ. Genova 1: 380. 1869.

Other use: *Bryum turbinatum* fo. *molluscum* (De Notaris) Podpera, 1973.

B. turbinatum fo. *patagonicum* (Brotherus) Podpera, Bryum Gen. Monogr. Prodr. 16: 246. 1973.

Basionym: *Bryum schleicheri* var. *patagonicum* Brotherus, 1923.

B. turbinatum fo. *peracutifolium* (Thériot in Maire) Podpera, Bryum Gen. Monogr. Prodr. 16: 250. 1973.

Basionym: *Bryum schleicheri* fo. *peracutifolium* Thériot in Maire, 1933.

B. turbinatum fo. *perpusillum* (Warnstorf) Podpera, Bryum Gen. Monogr. Prodr. 16: 233. 1973.

Basionym: *Bryum turbinatum* var. *perpusillum* Warnstorf, 1915.

B. turbinatum var. *perpusillum* Warnstorf, Hedwigia 57: 105. 1915.

Other use: *Bryum turbinatum* fo. *perpusillum* (Warnstorf) Podpera, 1973.

B. turbinatum fo. *pilati* (Podpera) Podpera, Bryum Gen. Monogr. Prodr. 16: 254. 1973.

Basionym: *Bryum neodamense* fo. *pilati* Podpera, 1924.

Bryum, continued.

B. turbinatum var. *pokornyi* Podpera, Bryum Gen. Monogr. Prodr. 16: 248. 1973.

Type: Austria. Schneeberg, *Pokorny*, 1848. Holotype: "H.V."

B. turbinatum fo. *polygamum* (Podpera) Podpera, Bryum Gen. Monogr. Prodr. 16: 248. 1973.

Basionym: *Bryum schleicheri* fo. *polygamum* Podpera, 1924.

B. turbinatum fo. *pseudobaueri* Podpera, Bryum Gen. Monogr. Prodr. 16: 256. 1973.

Type: Italy. Venetia alta, Solda, *Trautmann s.n.* Holotype: "H.Oen." Paratypes cited.

B. turbinatum subsp. *pseudoelegans* Podpera, Bryum Gen. Monogr. Prodr. 16: 237. pl. 32: a-f, h-i. 1973.

Type: Switzerland. Zermatt, *Podpera s.n.* Holotype: "H.P."

B. turbinatum fo. *pusillum* Warnstorf ex Podpera, Bryum Gen. Monogr. Prodr. 16: 233. 1973.

Type: Germany. Borussia. Neuruppin, *Warnstorf*, 1878. Holotype: "H.L.D." Paratypes cited.

B. turbinatum fo. *recurvum* Podpera, Bryum Gen. Monogr. Prodr. 16: 246. 1973.

Type: Austria. Salisburgia, 2400-2500 m, *Breidler s.n.* Holotype: "H.V."

B. turbinatum fo. *revolutum* Podpera, Bryum Gen. Monogr. Prodr. 16: 246. 1973.

Type: Austria. Tirolia, *Nabelek s.n.* Holotype: "H.V. Nab."

B. turbinatum fo. *robustum* Podpera, Bryum Gen. Monogr. Prodr. 16: 232. 1973.

Type: U.S.S.R. Georgian S.S.R.: Caucasus, Randscha Uzeri, *Brotherus s.n.* Holotype: "H.B.-H."

B. turbinatum fo. *serratulum* Podpera, Bryum Gen. Monogr. Prodr. 16: 246. 1973.

Type: Czechoslovakia. Moravia, *Vlach s.n.* Holotype: "H.P."

B. turbinatum fo. *sesvennae* Podpera, Bryum Gen. Monogr. Prodr. 16: 233. 1973.

Type: Switzerland. Engadin, *Kern s.n.* Holotype: "H.P."

B. turbinatum fo. *squarrosum* Podpera, Bryum Gen. Monogr. Prodr. 16: 253. 1973.

Type: Germany. Bavaria austr., Benediktbeuren, 1380 m, *Stolz s.n.* Holotype: "H.Oen." Paratypes cited.

B. turbinatum fo. *stenophyllum* (Thériot in Maire) Podpera, Bryum Gen. Monogr. Prodr. 16: 250. 1973.

Basionym: *Bryum schleicheri* fo. *stenophyllum* Thériot in Maire, 1933.

B. turbinatum fo. *sublimbatum* Podpera, Bryum Gen. Monogr. Prodr. 16: 254. 1973.

Type: Austria. Carinthia, Heiligenblut, 2000 m, *Handel-Mazzetti s.n.* Holotype: "H.Vind."

B. turbinatum fo. *submersum* (Limpricht in E. Bauer) Podpera, Bryum Gen. Monogr. Prodr. 16: 231. 1973.

Basionym: *Bryum submersum* Limpricht in E. Bauer, 1894.

Bryum, continued.

B. turbinatum subsp. *suborbiculare* (Philibert) Podpera, Bryum Gen. Monogr. Prodr. 16: 239. 1973.

Basionym: *Bryum suborbiculare* Philibert, 1901.

B. turbinatum fo. *tornense* Podpera, Bryum Gen. Monogr. Prodr. 16: 255. pl. 36: c-d. 1973.

Type: Sweden. Lapp. Tornensis, *Jäderholm s.n.* Holotype: "H.P."

B. turbinatum fo. *winteri* Geheeb ex Podpera, Bryum Gen. Monogr. Prodr. 16: 230. 1973.

Type: Switzerland. Pontresina, *Winter s.n.* Holotype: "H.Pav."

B. turgidosecundum Margadant, Lindbergia 1: 126. 1972.

Replaced name: *Bryum turgidum* Bomansson, 1900.

Blocking name: *Bryum turgidum* Arnott, 1825 [1826?].

**B. turgidum* Bomansson, Acta Soc. Fauna Fl. Fenn. 18(4): 80. 1900.

*illegitimate, later homonym (Article 64.1).

Earlier name: *Bryum turgidum* Arnott, 1825 [1826?].

Correct name: *Bryum turgidosecundum* Margadant, 1972.

Other use: *Bryum inclinatum* var. *turgidum* Podpera, 1973.

B. uber I. Hagen, Tromsø Mus. Aarsh. 21-22(2): 143. 1901.

Other use: *Bryum inclinatum* var. *uber* (I. Hagen) Podpera, 1973.

B. uliginosum (Bridel) Bruch & W. P. Schimper, 1839.

B. uliginosum fo. *brevisetum* Warnstorf, Krypt.-Fl. Brandenburg, Laubm. 2: 456. 1905.

Other use: *Bryum cernuum* fo. *brevisetum* (Warnstorf) Podpera, 1973.

B. uliginosum var. *hemisynapsium* Quelle in Röll, Hedwigia 56: 197. 1915.

Other use: *Bryum cernuum* fo. *hemisynapsium* (Quelle in Röll) Podpera, 1973.

B. uliginosum var. *regulare* Warnstorf, Schriften Naturf. Ges. Danzig, ser. 2, 9: 170. 1896 [1897].

Other use: *Bryum cernuum* fo. *regulare* (Warnstorf) Podpera, 1973.

**B. ventricosum* Relhan, 1802.

*illegitimate, type of earlier name included (Article 63.1).

B. ventricosum var. *angustifolium* Lindberg, Moss. Dillen. Hist. Musc. 34. 1883.

Other use: *Bryum pseudotriquetrum* fo. *angustifolium* (Lindberg) Podpera, 1973.

B. ventricosum var. *aquilanum* Bottini, Atti Soc. Tosc. Sci. Nat. Pisa Mem. 29: 181. 1913.

Other use: *Bryum pseudotriquetrum* fo. *aquilanum* (Bottini) Podpera, 1973.

B. ventricosum var. *atheroferum* Podpera, Bul. Grad. Bot. Univ. Cluj 11: 58. 1932.

Other use: *Bryum pseudotriquetrum* fo. *atheroferum* (Podpera) Podpera, 1973.

Bryum, continued.

**B. ventricosum* fo. *compactum* Podpera, Veröff. Geobot. Inst. Rübel Zürich 1: 253. 1924.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Bryum ventricosum* var. *compactum* (Bruch & W. P. Schimper) Lindberg, 1866.
Other use: *Bryum bimum* fo. *compactum* Podpera, 1973.

**B. ventricosum* var. *crassinervium* Loeske in Warnstorf, Krypt.-Fl. Brandenburg, Laubm. 2: 95. 1904.
*illegitimate, type of earlier name included (Article 63.1).
Earlier name: *Bryum bimum* var. *amoenum* Warnstorf, 1899.
Other use: *Bryum pseudotriquetrum* fo. *crassinervium* Podpera, 1973.

B. ventricosum fo. *gracillimum* H. Arnell, Ark. Bot. 13(2): 38. 1913.
Other use: *Bryum pseudotriquetrum* fo. *gracillimum* (H. Arnell) Podpera, 1973.

B. ventricosum var. *humile-operculatum* H. Winter, Hedwigia 49: 361. 1910.
Other use: *Bryum pseudotriquetrum* fo. *humile-operculatum* (H. Winter) Podpera, 1973.

B. ventricosum var. *inundatum* Warnstorf, Krypt.-Fl. Brandenburg, Laubm. 2: 495. 1905.
Other use: *Bryum pseudotriquetrum* fo. *inundatum* (Warnstorf) Podpera, 1973.

B. ventricosum var. *latifolium* Lindberg, Moss. Dillen. Hist. Musc. 43. 1883.
Other use: *Bryum pseudotriquetrum* fo. *latifolium* (Lindberg) Podpera, 1973.

B. ventricosum fo. *laxum* Podpera in E. Bauer, Musci Eur. Exsic. 19: 935. 1912.
Other use: *Bryum pseudotriquetrum* fo. *laxum* (Podpera in E. Bauer) Podpera, 1973.

B. ventricosum var. *longedecurrens* Mikutowicz, Bryoth. Balt. 91. 1909.
Other use: *Bryum pseudotriquetrum* fo. *longedecurrens* (Mikutowicz) Podpera, 1973.

B. ventricosum var. *montanum* Bomansson, Acta Soc. Fauna Fl. Fenn. 18: 92. 1900.
Other use: *Bryum pseudotriquetrum* fo. *montanum* (Bomansson) Podpera, 1973.

B. ventricosum var. *ovoideum* Podpera, Zprávy Kommis. Prir. Prozk. Moravi 9: 12. 1932.
Other use: *Bryum pseudotriquetrum* fo. *ovoideum* (Podpera) Podpera, 1973.

B. ventricosum var. *propaguliferum* Amann, Fl. Mouss. Suisse 2: 213. 1918.
Other use: *Bryum pseudotriquetrum* fo. *propaguliferum* (Amann) Podpera, 1973.

B. ventricosum var. *pseudoelegans* Amann, Fl. Mouss. Suisse 2: 394. 1918.
Other use: *Bryum pseudotriquetrum* fo. *pseudoelegans* (Amann) Podpera, 1973.

Bryum, continued.

B. ventricosum var. *squarrosum* Warnstorf, Krypt.-Fl. Brandenburg, Laubm. 2: 495. 1905.

Other use: *Bryum pseudotriquetrum* fo. *squarrosum* (Warnstorf) Podpera, 1973.

B. ventricosum fo. *submersum* H. Winter, Hedwigia 49: 361. 1910.

Other use: *Bryum pseudotriquetrum* fo. *submersum* (H. Winter) Podpera, 1973.

B. ventricosum var. *subteres* Bryhn & Ryan, Rep. Second Norweg. Arctic Exped. "Fram" 1898-1902, Mosses 2(11): 111. 1907.

Other use: *Bryum pseudotriquetrum* fo. *subteres* (Bryhn & Ryan) Podpera, 1973.

B. ventricosum var. *vestitum* Brotherus, Oefers. Förh. Finska Vetensk.-Soc. 62A(9): 19. 1921.

Other use: *Bryum pseudotriquetrum* fo. *vestitum* (Brotherus) Podpera, 1973.

B. venustum Bomansson, Rev. Bryol. 30: 100. 1903.

Other use: *Bryum lisae* var. *venustum* (Bomansson) Margadant, 1972.

B. versicolor A. Braun ex Bruch & W. P. Schimper, 1839.

**B. versicolor* var. *blumrichii* Podpera, Bryum Gen. Monogr. Prodr. 17: 401. 1973.

*invalid, single element not cited as holotype (Article 37.3).

Type: Austria. Voralberg, Bregenz, *Blumrich*, 1909 (Musci Eur. Exsicc. 923). Herbaria: "H.Gs., H.M.N.Pr."

B. versicolor var. *flavidens* Kaurin ex Podpera, Bryum Gen. Monogr. Prodr. 17: 401. 1973.

Type: Norway. Opdal, *Kaurin*, 1885. Holotype: "H.L.D."

B. versisporum Bomansson, Rev. Bryol. 23: 91. 1896.

Other use: *Bryum pallens* fo. *versisporum* Podpera, 1973.

B. violaceum Crundwell & Nyholm, Bot. Not. 116: 94. 1963.

Type: Sweden. Vastergotland: Billingen, Timmersdala Parish, Statareliden, *Hulphers*, 1932. Holotype: S. Other indicated distribution: Argentina, Austria, British Isles, Canada (British Columbia, Ontario, Quebec), Denmark, France, Germany, Switzerland, U.S.A. (California, Idaho, Nebraska, Washington, Wisconsin).

Other use: *Bryum radiculosum* fo. *violaceum* (Crundwell & Nyholm) Margadant & During, 1982.

B. wabagense E. B. Bartram, Rev. Bryol. Lichénol. 30: 191. 1961.

Other use: *Brachymenium wabagense* (E. B. Bartram) T. Koponen & Norris, 1984.

B. warneum (Röhling) Bridel, 1826.

B. warneum var. *adamii* Podpera, Bryum Gen. Monogr. Prodr. 17: 371. 1973.

Type: Hungary. Banhida, *Boros 521*. Holotype: "A.P."

B. warneum var. *arenicola* Podpera, Bryum Gen. Monogr. Prodr. 17: 371. 1973.

Type: Hungary. Komarom, *Boros 501*. Holotype: "H.P."

Bryum, continued.

B. warneum var. *biddlecomiae* (Austin) Podpera, Bryum Gen. Monogr. Prodr. 17: 372. 1973.
Basionym: *Bryum biddlecomiae* Austin, 1877.

B. warneum var. *kaalaasii* Kaurin ex Podpera, Bryum Gen. Monogr. Prodr. 17: 372. 1973.
Type: Norway. Nordland, *Kaalaas*, 1894. Holotype: "H.L.D."

B. warneum var. *nepium* Podpera, Bryum Gen. Monogr. Prodr. 17: 371. 1973.
Type: Hungary. Komarom, *Boros 525*. Holotype: "H.P."

B. warneum var. *oocarpum* Podpera, Bryum Gen. Monogr. Prodr. 17: 377. 1973.
Type: Norway. Bodo, *Zetterstedt*, 1868. Holotype: "H.L.-D."

**B. warneum* subsp. *peisonis* Baumgartner & Podpera in Podpera, Bryum Gen. Monogr. Prodr. 17: 378. 1973.
*invalid, single element not cited as holotype (Article 37.3).
Type: Austria. Burgenland, *Baumgartner*, 1922. Herbaria: "H.Bg., H.P."

B. warneum subsp. *propinquum* Podpera, Bryum Gen. Monogr. Prodr. 17: 380. 1973.
Type: Sweden. Jamtland, *Hassler s.n.* Holotype: "H.M."

B. warneum fo. *pseudolacustre* Podpera, Bryum Gen. Monogr. Prodr. 17: 371. 1973.
Type: Hungary. Komarom, *Boros s.n.* Holotype: "H.P."

B. warneum var. *subdecurrens* Podpera, Bryum Gen. Monogr. Prodr. 17: 371. 1973.
Type: Hungary. Komarom, *Boros 528*. Holotype: "H.P."

B. warneum subsp. *vistulanum* Podpera, Bryum Gen. Monogr. Prodr. 17: 378. 1973.
Type: Germany. Borussia, Marienwerder, *Klinggraeff*, 1862. Holotype: "H. Sydow."

B. weigelii Sprengel, 1807.

B. weigelii fo. *acutius* Podpera, Bryum Gen. Monogr. Prodr. 16: 46. 1973.
Type: Norway. Jotunheim, am Ufer des Bygdin bei Nyboden, 1010 m, *Kern s.n.* Holotype: "H.P."

B. weigelii fo. *gaspeanum* (Kindberg in Macoun) Pilous in Podpera, Bryum Gen. Monogr. Prodr. 16: 46. 1973.
Basionym: *Bryum duvalii* var. *gaspeanum* Kindberg in Macoun, 1892.

B. weigelii fo. *krajinae* Podpera, Bryum Gen. Monogr. Prodr. 16: 47. 1973.
Type: Czechoslovakia. Tatra Magna, in convalle Mlynica, 1535 m, *Krajina s.n.* Holotype: "H.P."

B. weigelii var. *latodecurrens* (C. Müller & Kindberg in Macoun) Pilous in Podpera, Bryum Gen. Monogr. Prodr. 16: 47. 1973.
Basionym: *Bryum duvalii* var. *latodecurrens* C. Müller & Kindberg in Macoun, 1892.

B. weigelii fo. *leucobasis* (Kindberg) Pilous in Podpera, Bryum Gen. Monogr. Prodr. 16: 45. 1973.
Basionym: *Bryum leucobasis* Kindberg, 1909.

Bryum, continued.

B. weigelii fo. *obtusatum* (Cardot & Thériot) Pilous in Podpera, Bryum Gen. Monogr. Prodr. 16: 46. 1973.
Basionym: *Bryum duvalii* var. *obtusatum* Cardot & Thériot, 1902.

B. weigelii fo. *robustum* (I. Hagen) Pilous in Podpera, Bryum Gen. Monogr. Prodr. 16: 47. 1973.
Basionym: *Bryum duvalii* fo. *robustum* I. Hagen, 1901.

B. weigelii var. *sagittifolium* (Culmann) Pilous in Podpera, Bryum Gen. Monogr. Prodr. 16: 46. 1973, "*sagittaefolium*."
Basionym: *Bryum sagittifolium* Culmann, 1908.

B. weigelii fo. *sublimbatum* Podpera, Bryum Gen. Monogr. Prodr. 16: 46. 1973.
Type: Italy. Venetia alta, Friaul, Monte Coglians, 2000 m, *Kern s.n.* Holotype: "H.P."

B. weigelii fo. *viride* (Amann) Pilous in Podpera, Bryum Gen. Monogr. Prodr. 16: 46. 1973.
Basionym: *Bryum duvalii* var. *viride* Amann, 1918.

B. werthii (Brotherus in Drygalski) Ochi, J. Hattori Bot. Lab. 35: 67. 1972.
Basionym: *Anomobryum werthii* Brotherus in Drygalski, 1906.

B. wichurae Brotherus, Hedwigia 38: 219. 1899.
Other use: *Bryum neelgheriense* var. *wichurae* (Brotherus) Mohamed, 1979.

B. wilhelmense E. B. Bartram, Contr. U.S. Natl. Herb. 37: 49. 1965.
Type: Papua New Guinea. Mt. Wilhelm, 3560 m, *Brass 29821*. Holotype: US.

B. zonatiforme Kindberg, Bot. Not. 1896: 196. 1896.
Other use: *Bryum rutilans* var. *zonatiforme* (Kindberg) Podpera, 1973.

***Bucklandia** Roivainen, Arch. Soc. Zool. Bot. Fenn. "Vanamo" 9: 98 f. 1-2. 1955.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Bucklandia* Sternberg, 1825.
Correct name: *Bucklandiella* Roivainen, 1972.

B. bartramii Roivainen, Arch. Soc. Zool. Bot. Fenn. "Vanamo" 9: 99. f. 1-2. 1955.
Other use: *Bucklandiella bartramii* (Roivainen) Roivainen, 1972, *Racomitrium bartramii* (Roivainen) H. Robinson, 1974.

Bucklandiella Roivainen, Ann. Bot. Fenn. 9: 116. 1972.
Replaced name: *Bucklandia* Roivainen, 1955.
Blocking name: *Bucklandia* Sternberg, 1825.

B. bartramii (Roivainen) Roivainen, Ann. Bot. Fenn. 9: 116. 1972.
Basionym: *Bucklandia bartramii* Roivainen, 1955.

+**Buthelezia** Lacey, Dijk & Gordon-Gray, Ann. Natal Mus. 22: 411. illustration. 1975.
Type: *B. mooiensis* Lacey, Dijk & Gordon-Gray, holotype.
Original placement: not indicated by authors.

Buthelezia, continued.

+*B. mooiensis* Lacey, Dijk & Gordon-Gray, Ann. Natal Mus. 22: 411. illustration. 1975.
Type: South Africa. Mooi River-Estcourt by-pass, 80 km NW of Pietermaritzburg, *Dijk NM1880*. Holotype: Natal Museum.

Buxbaumia Hedwig, 1801.

B. sect. *Symmetritheca* Chen Pan-chieh & Li Xing-jiang, Acta Phytotax. Sin. 9: 280. 1964.
Type: *B. symmetrica* Chen Pan-chieh & Li Xing-jiang, holotype.

B. himalayensis Udar, Srivastava & D. Kumar, Trans. Brit. Bryol. Soc. 6: 266. f. 1-2. pl. 1. 1971.
Type: India. Deoban, versus montem Khadamba, Himal. Occid., 3230 m, *Udar et al.*, 1969. Holotype: L.

B. punctata Chen Pan-chieh & Li Xing-jiang, Acta Phytotax. Sin. 9: 278. pl. 29. 1964.
Type: China. Sichuan: Ma-erh-kang, Wang-chia-chai-kou, 3500 m, *Lee 1476*. Holotype: PE.
Original placement: sect. *Polyodon*.

B. symmetrica Chen Pan-chieh & Li Xing-jiang, Acta Phytotax. Sin. 9: 279. pl. 30. 1964.
Type: China. Shaanxi: Yu-hsien, Lao-yu, Pa-li-ping, Shih-men-kou, 1800 m, *Wei 4731a*. Holotype: PE.
Original placement: sect. *Symmetritheca*.

B. thorsborneae Stone, J. Bryol. 12: 541. f. 1-2. pl. 1: a. 1983.
Type: Australia. Queensland: Mt. Bellenden Ker, 1200 m, *Stone 16842*. Holotype: BRI; isotypes: BM, MEL.

Callialaria Ochyra, J. Hattori Bot. Lab. 67: 217. 1989.
Type: *Hypnum curvicaule* Juratzka, *C. curvicaulis* (Juratzka) Ochyra, holotype.
Original placement: Cratoneuraceae.

C. curvicaulis (Juratzka) Ochyra, J. Hattori Bot. Lab. 67: 219. 1989.
Basionym: *Hypnum curvicaule* Juratzka, 1864.

Callicladium H. Crum, Bryologist 74: 167. 1971.
Type: *Hypnum haldanianum* Greville, *C. haldaniana* (Greville) H. Crum, holotype.
Original placement: Hypnaceae.

C. haldanianum (Greville) H. Crum, Bryologist 74: 167. 1971.
Basionym: *Hypnum haldanianum* Greville, 1825.

C. haldanianum var. *viride* (S. Okamura) Iwatsuki & Noguchi, J. Jap. Bot. 48: 215. 1973.
Basionym: *Stereodon haldanianus* var. *viridis* S. Okamura, 1915.

Callicosta C. Müller, 1848.
C. andersonii (Crosby) Crosby, Bryologist 81: 436. 1978.
Basionym: *Pilotrichum andersonii* Crosby, 1968.
C. armata (Brotherus) Crosby, Bryologist 81: 436. 1978.
Basionym: *Pilotrichum armatum* Brotherus, 1920.
C. asperifolia (Mitten) Crosby, Bryologist 81: 436. 1978.
Basionym: *Pilotrichum asperifolium* Mitten, 1869.
C. corrugata (Renauld & Cardot) Crosby, Bryologist 81: 437. 1978.
Basionym: *Pilotrichum corrugatum* Renauld & Cardot, 1902-03 [1905].
C. cristata (Mitten) Crosby, Bryologist 81: 437. 1978.
Basionym: *Pilotrichum cristatum* Mitten, 1869.
C. debilis (Bescherelle) Crosby, Bryologist 81: 436. 1978.
Basionym: *Pilotrichum debile* Bescherelle, 1876.
C. divaricata (Mitten) Crosby, Bryologist 81: 436. 1978.
Basionym: *Pilotrichum divaricatum* Mitten, 1869.
C. evanescens C. Müller, Linnaea 21: 189. 1848.
Other use: *Pilotrichum evanescens* (C. Müller) Crosby, 1969.
C. fendleri (C. Müller) Crosby, Bryologist 81: 436. 1978.
Basionym: *Pilotrichum fendleri* C. Müller, 1879.
C. husnotii (W. P. Schimper ex Bescherelle) Crosby, Bryologist 81: 436. 1978.
Basionym: *Pilotrichum husnotii* W. P. Schimper ex Bescherelle, 1876.
C. longicaulis (Brotherus) Crosby, Bryologist 81: 437. 1978.
Basionym: *Pilotrichum longicaule* Brotherus, 1920.
C. lophophylla (Sullivant) Crosby, Bryologist 81: 436. 1978.
Basionym: *Pilotrichum lophophyllum* Sullivant, 1861.
C. luciae (Crosby) Crosby, Bryologist 81: 436. 1978.
Basionym: *Pilotrichum luciae* Crosby, 1969.
C. procera (Mitten) Crosby, Bryologist 81: 436. 1978.
Basionym: *Pilotrichum procerum* Mitten, 1869.
C. ramosissima (Mitten) Crosby, Bryologist 81: 436. 1978.
Basionym: *Pilotrichum ramosissimum* Mitten, 1869.
C. rugifolia (C. Müller) Crosby, Bryologist 81: 437. 1978.
Basionym: *Pilotrichum rugifolium* C. Müller, 1851.

Callicostella (C. Müller) Mitten, 1859, conserved name.
C. sect. *Convergentes* Demaret & Potier de la Varde ex Demaret, Bull. Jard. Bot. État 35: 92. 1965.
Type: *C. emarginatula* Brotherus, holotype.
Other use: *Schizomitrium* sect. *Convergentes* (Demaret & Potier de la Varde ex Demaret) Ochyra in Ochyra & Pócs, 1982.
Note: invalid, no Latin description (Article 36.1), in Bull. Jard. Bot. Bruxelles 23: 1. 1953.

Callicostella, continued.

C. sect. *Divergentes* Demaret & Potier de la Varde ex Demaret, Bull. Jard. Bot. État 35: 92. 1965.
Type: *C. heterophylla* Aongstroem, holotype.
Other use: *Schizomitrium* sect. *Divergentes* (Demaret & Potier de la Varde ex Demaret) Ochyra in Ochyra & Pócs, 1982.
Note: invalid, no Latin description (Article 36.1), in Bull. Jard. Bot. Bruxelles 23: 1. 1953.

C. sect. *Rectae* Demaret & Potier de la Varde ex Demaret, Bull. Jard. Bot. État 35: 92. 1965.
Type: *C. perpapillata* Brotherus & Potier de la Varde, holotype.
Other use: *Schizomitrium* sect. *Rectae* (Demaret & Potier de la Varde ex Demaret) Ochyra in Ochyra & Pócs, 1982.
Note: invalid, no Latin description (Article 36.1), in Bull. Jard. Bot. Bruxelles 23: 1. 1953.

C. abrupta Mitten, J. Proc. Linn. Soc., Bot. 7: 161. 1864.
Other use: *Glossadelphus abruptus* (Mitten) H. Robinson, 1967.

C. acutifolia Thériot, Rev. Bryol. Lichénol. 10: 14. f. 3. 1937.
Other use: *Schizomitrium acutifolium* (Thériot) Churchill, 1988.

C. africana Mitten, Trans. Linn. Soc. London 23: 53. pl. 5: f. 9. 1860.
Other use: *Schizomitrium africanum* (Mitten) Ochyra in Ochyra & Pócs, 1982.

C. applanata Brotherus & Bryhn in Bryhn, Forh. Vidensk.-Selsk. Christiania 1911(4): 19. 1911.
Other use: *Schizomitrium applanatum* (Brotherus & Bryhn in Bryhn) Ochyra in Ochyra & Pócs, 1982.

C. aquatica E. B. Bartram in B. Willis, Bryologist 42: 155. f. 4. 1939.
Other use: *Schizomitrium aquaticum* (E. B. Bartram in B. Willis) H. Crum, 1984.

C. caledonica Thériot, Bull. Acad. Int. Géogr. Bot. 18: 254. 1908.
Other use: *Schizomitrium caledonicum* (Thériot) H. A. Miller, H. O. Whittier & B. Whittier, 1978.

C. chevalieri Brotherus in Corbière, Bull. Mus. Hist. Nat. (Paris), ser. 1, 18: 113. 1912.
Other use: *Schizomitrium chevalieri* (Brotherus in Corbière) Ochyra in Ochyra & Pócs, 1982.

C. colombica R. S. Williams, Bryologist 28: 61. 1925.
Other use: *Schizomitrium colombicum* (R. S. Williams) Buck & Steere, 1983.

C. emarginatula Brotherus in Corbière, Bull. Mus. Hist. Nat. (Paris), ser. 1, 18: 114. 1912.
Other use: *Schizomitrium emarginatulum* (Brotherus in Corbière) Ochyra in Ochyra & Pócs, 1982.

C. erosotruncata Cardot, Rev. Bryol. 36: 49. 1909.
Other use: *Schizomitrium erosotruncatum* (Cardot) Ochyra in Ochyra & Pócs, 1982.

Callicostella, continued.

C. frateri Brotherus & Watts, J. & Proc. Roy. Soc. New South Wales 49: 145. 1915.

Other use: *Schizomitrium frateri* (Brotherus & Watts) H. A. Miller, H. O. Whittier & B. Whittier, 1978.

C. gabonensis Brotherus & Potier de la Varde & Potier de la Varde, Bull. Soc. Bot. France 72: 361. f. 13: c. 1925.

Other use: *Schizomitrium gabonense* (Brotherus & Potier de la Varde & Potier de la Varde) Ochyra in Ochyra & Pócs, 1982.

C. grossiretis E. B. Bartram in B. Willis, Bryologist 42: 156. f. 3. 1939.

Other use: *Schizomitrium grossirete* (E. B. Bartram in B. Willis) H. Crum, 1984.

C. hondurensis H. Crum, Bryologist 55: 283. f. 6-8. 1952.

Other use: *Schizomitrium hondurense* (H. Crum) H. Crum, 1984.

C. kreaniana Tixier, Rev. Bryol. Lichénol. 33: 562. f. 1-5. 1964-65 [1965].

Type: Vietnam. Base du col de Prenn, Krean, *Tixier s.n.* Herbarium not specified by author.

C. laeviuscula Mitten, Philos. Trans. 168: 392. pl. 37: b. 1879.

Other use: *Schizomitrium laeviusculum* (Mitten) Ochyra in Ochyra & Pócs, 1982.

C. melanotheca (Duby ex Bescherelle) Jaeger, 1877.

C. melanotheca var. *scabriseta* Thériot, Diagn. Esp. Var. Nouv. Mouss. 8: 6. 1910.

Other use: *Schizomitrium melanotheca* var. *scabrisetum* (Thériot) H. A. Miller, H. O. Whittier & B. Whittier, 1978.

C. mexicana H. Robinson & W. H. Welch in W. H. Welch, Bryologist 69: 9. f. 306-316. 1966.

Type: Mexico. Veracruz: Tecolutla-Poza Pica road, 11.2 miles E of Papantla, *Pursell & Reese 5108*. Holotype: DPU; isotypes: LAF, PAC, US.

Other use: *Schizomitrium mexicanum* (H. Robinson & W. H. Welch in W. H. Welch) F. D. Bowers, 1985.

C. papillata (Montagne) Mitten, 1859.

C. papillata var. *brevifolia* Fleischer, Musci Buitenzorg 3: 1026. 1908.

Other use: *Schizomitrium papillatum* var. *brevifolium* (Fleischer) H. A. Miller, H. O. Whittier & B. Whittier, 1978.

C. papillata fo. *longifolia* Fleischer, Musci Buitenzorg 3: 1026. 1908.

Other use: *Schizomitrium papillatum* var. *longifolium* (Fleischer) H. A. Miller, H. O. Whittier & B. Whittier, 1978.

C. papillosula Brotherus & Potier de la Varde in Potier de la Varde, Bull. Soc. Bot. France 72: 362. f. 14: c. 1925.

Other use: *Schizomitrium papillosulum* (Brotherus & Potier de la Varde in Potier de la Varde) Ochyra in Ochyra & Pócs, 1982.

C. parvicellulata Demaret & Potier de la Varde, Bull. Jard. Bot. État 22: 342. f. 38. 1952, "*parvocellulata*."

Other use: *Schizomitrium parvicellulatum* (Demaret & Potier de la Varde) Ochyra in Ochyra & Pócs, 1982.

Callicostella, continued.

C. perpapillata Brotherus & Potier de la Varde in Potier de la Varde, Bull. Soc. Bot. France 72: 361. f. 14: b. 1925.

Other use: *Schizomitrium perpapillatum* (Brotherus & Potier de la Varde in Potier de la Varde) Ochyra in Ochyra & Pócs, 1982.

C. plicatula Thériot, Rev. Bryol. Lichénol. 10: 13. 1937.

Other use: *Schizomitrium plicatulum* (Thériot) Churchill, 1988.

C. pusilla Brotherus ex Demaret & Potier de la Varde, Bull. Jard. Bot. État 22: 343. f. 39. 1952.

Other use: *Schizomitrium pusillum* (Brotherus ex Demaret & Potier de la Varde) Ochyra in Ochyra & Pócs, 1982.

C. subemarginatula Brotherus & Potier de la Varde in Potier de la Varde, Bull. Soc. Bot. France 72: 360. f. 13: b. 1925.

Other use: *Schizomitrium subemarginatulum* (Brotherus & Potier de la Varde in Potier de la Varde) Ochyra in Ochyra & Pócs, 1982.

C. tenerrima E. B. Bartram, Bryologist 54: 238. 1951 [1952].

Other use: *Schizomitrium tenerrimum* (E. B. Bartram) H. Crum, 1984.

C. vatteri E. B. Bartram, Bryologist 49: 118. 1946.

Other use: *Schizomitrium vatteri* (E. B. Bartram) H. Crum, 1984.

Calliergidium Grout, 1931.

C. austrostramineum (C. Müller in Neumayer) E. B. Bartram, 1946.

C. austrostramineum var. *gracillimum* (C. Müller in Neumayer) Wijk & Margadant, Taxon 14: 196. 1965.

Basionym: *Hypnum austrostramineum* var. *gracillimum* C. Müller in Neumayer, 1890.

C. austrostramineum var. *minus* (Cardot) Wijk & Margadant, Taxon 14: 196. 1965.

Basionym: *Hypnum austrostramineum* var. *minus* Cardot, 1906.

C. austrostramineum var. *subfluitans* (C. Müller in Neumayer) Wijk & Margadant, Taxon 14: 196. 1965.

Basionym: *Hypnum austrostramineum* var. *subfluitans* C. Müller in Neumayer, 1890.

Calliergon (Sullivant in A. Gray) Kindberg, 1894.

C. subgen. *Laxirete* Zanten & Bartlett, Cryptog. Bryol. Lichénol. 7: 32. 1986.

Type: *C. laxirete* Zanten & Bartlett, holotype.

C. ser. *Megalophyllae* Karczmarz, Monogr. Bot. 34: 101. 1971.

Type: *C. megalophyllum* Mikutowicz, holotype.

C. ser. *Obtusocordatae* Karczmarz, Monogr. Bot. 34: 65. 1971.

Type: *Hypnum orbicularicordatum* Renauld & Cardot, *C. orbicularicordatum* (Renauld & Cardot) Brotherus, holotype.

**C.* ser. *Rubifolia* Karczmarz, Monogr. Bot. 10: 126. 1971.

*invalid, single element not cited as holotype (Article 37.3).

Type: no element cited by author.

Calliergon, continued.

C. subgen. *Sarmentypnum* (Tuomikoski & T. Koponen) Zanten & Bartlett, Cryptog. Bryol. Lichénol. 7: 32. 1986.

Basionym: *Sarmentypnum* Tuomikoski & T. Koponen, 1979.

C. sect. *Straminea* C. E. O. Jensen, Danmarks Mosser 2: 88. 1923, "*Stramineum*."

Other use: *Calliergon* subgen. *Straminea* (C. E. O. Jensen) Tuomikoski & T. Koponen, 1979.

Note: rank assigned in Index Muscorum.

C. subgen. *Straminea* (C. E. O. Jensen) Tuomikoski & T. Koponen, Ann. Bot. Fenn. 16: 223. 1979.

Basionym: *Calliergon* sect. *Straminea* C. E. O. Jensen, 1923.

C. auriculatum (Montagne) Margadant, Lindbergia 1: 126. 1972.

Basionym: *Hypnum auriculatum* Montagne, 1843.

C. cordifolium (Hedwig) Kindberg, 1894.

C. cordifolium var. *latifolium* Karczmarz, Monogr. Bot. 34: 61. pl. 2: f. g: 1-2, pl. 18: f. a: 1. 1971.

Type: Norway. Akershus: I skoven ovenfor Svendstuen i V. Aker i sumpe, *Kaalaas*, 1896. Holotype: BG; isotype: LBLC. Other indicated distribution: Canada (Ontario, Quebec), Czechoslovakia, Finland, Germany, Poland, Sweden, U.S.A. (New York).

C. cuspidatum (Hedwig) Kindberg, 1894.

C. cuspidatum fo. *acuteramosum* E. Bauer ex Karczmarz, Monogr. Bot. 34: 179. pl. 16: f. d: 1. 1971.

Type: Czechoslovakia. Ad pedem Milasovec prope oppidum Velemin, in fossis, *Bauer*, 1896. Holotype: OP. Other indicated distribution: Canada (British Columbia), Denmark, Finland, Germany, Italy, Netherlands, Norway, Poland, Sweden, U.S.A. (Minnesota), U.S.S.R.

C. cuspidatum var. *albostellatum* Karczmarz, Monogr. Bot. 34: 192. pl. 17: f. g: 1-2. 1971.

Type: Czechoslovakia. Bohemia: Libusin, ca. 400 m, *Sindelar*, 1944. Holotype: PR; isotypes: B, OP.

C. cuspidatum var. *caespitosum* (H. Whitehouse in Dixon) Karczmarz, Monogr. Bot. 34: 182. 1971.

Basionym: *Hypnum cuspidatum* var. *caespitosum* H. Whitehouse in Dixon, 1896.

C. cuspidatum var. *patens* (Podpera) Karczmarz, Monogr. Bot. 34: 180. 1971.

Basionym: *Acrocladium cuspidatum* var. *patens* Podpera, 1922.

C. cuspidatum fo. *turgescens* (Wheldon) Karczmarz, Monogr. Bot. 34: 177. 1971.

Basionym: *Acrocladium cuspidatum* var. *turgescens* Wheldon, 1924.

C. giganteum (W. P. Schimper) Kindberg, 1894.

C. giganteum var. *pennatum* Karczmarz, Monogr. Bot. 34: 91. pl. 6: f. f: 1-5, pl. 9: f. a: 1. 1971.

Type: Canada. British Columbia: along Buckinghorse River, ca. 1 mile above Fort St. John, 132°50' N, 57°22' W, 3000 feet, *Correll 12239*. Holotype: LD.

Calliergon, continued.

C. giganteum var. *tenuis* Karczmarz, Monogr. Bot. 34: 100. pl. 7: f. E: 1-4. 1971.
Type: U.S.A. Vermont: Brandon, *Dutton 334*. Holotype: NY.

C. joveti-astii Hébrard, Rev. Bryol. Lichénol. 37: 153. pl. 6: f. 1. 1970.
Type: Crozet Islands. Naufragii Valls, *Hebrard 28*. Holotype: PC.

C. laxirete Zanten & Bartlett, Cryptog. Bryol. Lichénol. 7: 32. 1986.
Type: New Zealand. North Island: Tongariro National Park, Mt. Ruapehu, above Chateau, 1400 m, *Zanten 1617*. Holotype: GRO; isotypes: AAU, B, BM, BOL, CANB, COLO, DUIS, FH, FLAS, L, LAE, MO, NICH, NY, PNH, S-PA, TNS, U, UBC. Paratypes cited.
Original placement: subgen. *Laxirete*.

C. macounii Karczmarz, Ann. Univ. Mariae Curie-Słodowska, Sect. C, Biol. 21: 183. f. 1. 1966.
Type: Canada. Yukon: in a marsh, mouth of Bonanza Creek, *Macoun 13654*. Holotype: CANM. Paratypes cited.

C. megalophyllum Mikutowicz, 1908.

C. megalophyllum var. *natans* Karczmarz, Monogr. Bot. 34: 107. pl. 8: f. a: 1, pl. 20: f. a: 1. 1971.
Type: Norway. Ringerike, in stagnis prope prodium Hen, 60°10' N, 27°50' S, 150 m, *Bryhn*, 1901. Holotype: BG; isotype: O. Other indicated distribution: Finland, Netherlands, Sweden.

C. obtusifolium Karczmarz, Rev. Bryol. Lichénol. 34: 762. f. 1. 1966 [1967].
Type: Norway. Svalbard, Kap Thorsen, *Jørgensen*, 1896. Holotype: BG.

C. richardsonii (Mitten) Kindberg, 1897.

C. richardsonii fo. *islandicum* (Meylan) Karczmarz, Monogr. Bot. 34: 73. 1971.
Basionym: *Calliergon richardsonii* var. *islandicum* Meylan, 1940.

C. richardsonii var. *islandicum* Meylan, Ber. Schweiz. Bot. Ges. 50: 496. f. 4. 1940.
Other use: *Calliergon richardsonii* fo. *islandicum* (Meylan) Karczmarz, 1971.

C. richardsonii var. *ramosum* Karczmarz, Monogr. Bot. 34: 77. pl. 5: f. b: 1-2. 1971.
Type: Sweden. Jamtland: Kall sn, Sjon Torron, vid myruiken V. omoutlopert, *Mellquist*, 1954. Holotype: S. Other indicated distribution: Germany, Norway.

C. sarmentosum (Wahlenberg) Kindberg, 1894.

C. sarmentosum var. *crispa* Karczmarz, Monogr. Bot. 34: 142. pl. 11: f. c: 1-5, pl. 20: f. b: 1. 1971.
Type: Austria. Steiermark: nasse Felsen in Seekaar bei Schladming, 5800 feet, *Breidler*, 1870. Holotype: W. Other indicated distribution: Canada (Labrador), Czechoslovakia, Norway, Sweden, Switzerland, United Kingdom (Scotland).

C. sarmentosum var. *flagellare* Karczmarz, Monogr. Bot. 34: 141. pl. 11: f. b: 1-4. 1971, "*flagellaris*."
Type: U.S.A. Alaska: Mt. Mckinley National Park, Thoroughfare River to Glacier Creek, base of Mt. Eielson (Copper Mts.) ca. 3400 feet, 63°25' N, 150°25' W, *Weber & Viereck 10165*. Holotype: OP; isotypes: DUKE, CANM.

Calliergon, continued.

C. stramineum (Dickson ex Bridel) Kindberg, 1894.

C. stramineum fo. *flagellaceum* G. Roth & Bock, Hedwigia 50: 113. pl. 3: f. 2: a-d. 1911, "*flagellacea*."

Other use: *Calliergon stramineum* var. *flagellaceum* (G. Roth & Bock) Karczmarz, 1971.

C. stramineum var. *flagellaceum* (G. Roth & Bock) Karczmarz, Monogr. Bot. 34: 124. 1971.

Basionym: *Calliergon stramineum* fo. *flagellaceum* G. Roth & Bock, 1911.

C. stramineum subsp. *laxifolium* Kindberg, Eur. N. Amer. Bryin. 1: 81. 1897.

Other use: *Calliergon stramineum* var. *laxifolium* (Kindberg) Karczmarz, 1971.

C. stramineum var. *laxifolium* (Kindberg) Karczmarz, Monogr. Bot. 34: 120. 1971.

Basionym: *Calliergon stramineum* subsp. *laxifolium* Kindberg, 1897.

C. subpapillosum Karczmarz, Monogr. Bot. 34: 68. pl. 3: f. c, pl. 4: a, pl. 18: f. a: 3. 1971.

Type: New Zealand. South Island: Diamond Lake, *Bell*, 1892. Holotype: H; isotype: L.

C. turgescens (T. Jensen) Kindberg, 1894.

C. turgescens var. *patens* Karczmarz, Monogr. Bot. 34: 167. pl. 14: f. b: 1-3. 1971.

Type: Germany. Niederbayern, Landau a. I., Kiersgrube bei Griepenau, umweit Bahnhof Pilstig, *Paul*, 1914. Holotype: W. Other indicated distribution: Austria, Canada (Labrador, Manitoba, Ontario), France, Greenland, Norway, Spitsbergen, Sweden, Switzerland, U.S.S.R.

C. turgescens var. *tenue* (Berggren) Karczmarz, Monogr. Bot. 34: 169. 1971.

Basionym: *Hypnum turgescens* var. *tenue* Berggren, 1875.

C. turgescens fo. *uliginosum* (Lindberg) Karczmarz, Monogr. Bot. 34: 166. 1971, "*uliginosa*."

Basionym: *Hypnum turgescens* var. *uliginosum* Lindberg, 1866 [1867].

C. wickesii Grout, Moss Fl. N. Amer. 1: 250. pl. 124: b. 1939.

Other use: *Loeskypnum wickesii* (Grout) Tuomikoski, 1973.

C. wilhelmense E. B. Bartram, Contr. U.S. Natl. Herb. 37: 60. 1965.

Type: Papua New Guinea. Mt. Wilhelm, 13,100 feet, *Collins 29943*. Holotype: US.

Calliergonella Loeske, 1911.

C. conardii E. Lawton, Moss Fl. Pacific Northwest 272. pl. 148: f. 6-10. 1971.

Type: U.S.A. Wyoming: Yellowstone Natl. Park, Lost Lake, *Lawton 1821*. Holotype: WTU.

C. cuspidata (Lindberg) Loeske, 1911.

**C. cuspidata* fo. *maior* (Podpera) Nyholm, Ill. Moss Fl. Fennoscandia. II. Musci 458. 1965.

*invalid, basionym not cited (Article 33.2).

Calliergonella, continued.

**C. cuspidata* fo. *pungens* (W. P. Schimper) Nyholm, Ill. Moss Fl. Fennoscandia. II. Musci 458. 1965.

*invalid, basionym not cited (Article 33.2), not (Schimper) C. E. O. Jensen (1939).

Calomnion J. D. Hooker & Wilson in J. D. Hooker, 1854.

C. melanesicum H. A. Miller, Mem. New York Bot. Gard. 45: 599. f. 1-11. 1987.

Type: Vanuatu. Aoba Island: Ndui Ndui District, N of Lake Manaro Ngoro, *Miller 18892*. Holotype: MU. Other indicated distribution: Fiji.

Calymperastrum Stone, J. Bryol. 14: 315. 1986.

Type: *Calymperes latifolium* Hampe in Lehmann, *C. latifolium* (Hampe in Lehmann) Stone, holotype.

Original placement: Pottiaceae.

C. latifolium (Hampe in Lehmann) Stone, J. Bryol. 14: 315. 1986.

Basionym: *Calymperes latifolium* Hampe in Lehmann, 1846.

Calymperes Swartz ex Weber, 1814 [1813].

C. boninense Iwatsuki, Bull. Natl. Sci. Mus., Ser. B, Bot. 11: 58. f. 1. 1985.

Type: Japan. Bonin Islands: Chichijima, valley above Tokoyono-taki Falls, 60-200 m, *Iwatsuki 8894*. Holotype: NICH. Paratypes cited.

C. calcuttense E. B. Bartram & Gangulee in Gangulee, J. Bombay Nat. Hist. Soc. 60: 632. f. 86. 1963 [1964].

Type: India. Sonarpur, prope Calcuttam, *Gangulee 3067*. Holotype: Presidency College, Calcutta; isotype: FH-Bartram.

C. constrictum Sullivant, U.S. Expl. Exped., Musci 6. pl. 3: a. 1859, "*constricta*."

Other use: *Mitthyridium constrictum* (Sullivant) H. Robinson, 1975.

**C. constrictum* Dixon, Bull. Torrey Bot. Club 51: 233. pl. 3: f. 10. 1924.

*illegitimate, later homonym (Article 64.1).

Earlier name: *Calymperes constrictum* Sullivant, 1859.

Other use: *Calymperes dixoconstrictum* B. C. Tan & Mohamed in Mohamed & B. C. Tan, 1988.

C. cuculatum Lin Pang-juan, Acta Phytotax. Sin. 17: 96. f. 3. 1979.

Type: China. Hainan, *Chen et al. 745a*. Holotype: IBSC; isotype: PE.

**C. damazii* Brotherus ex Wijk, Margadant & Florschütz, Regnum Veg. 17: 405 (Ind. Musc. 1: 405). 1959.

*invalid, orthographic variant (Article 75.1).

Correct name: *Campylopus damazii* Brotherus, 1927.

C. disciforme C. Müller, Linnaea 21: 183. 1848.

Other use: *Calymperopsis disciformis* (C. Müller) Tixier, 1967 [1968].

Syrrhopodon parasiticus var. *disciformis* (C. Müller) Florschütz, 1964.

C. dixoconstrictum B. C. Tan & Mohamed in Mohamed & B. C. Tan, Bryologist 91: 29. 1988.

Replaced name: *Calymperes constrictum* Dixon, 1924.

Blocking name: *Calymperes constrictum* Sullivant, 1859.

Calymperes, continued.

C. fordii Bescherelle, 1896.

C. fordii var. *javanicum* Fleischer, Musci Buitenzorg 1: 258. 1904, "*javanica*."
Other use: *Calymperes thwaitesii* var. *javanicum* (Fleischer) Wijk & Margadant, 1965.

C. hasegawae (Takaki & Iwatsuki) Iwasaki, J. Hattori Bot. Lab. 28: 220. 1965.
Basionym: *Syrrhopodon hasegawae* Takaki & Iwatsuki, 1959.

C. johannis-winkleri Brotherus, 1928.

C. johannis-winkleri var. *hasegawae* (Takaki & Iwatsuki) Iwatsuki, J. Jap. Bot. 43: 476. 1968.
Basionym: *Syrrhopodon hasegawae* Takaki & Iwatsuki, 1959.

C. lanceolatum Hampe, Vidensk. Meddel. Dansk Naturhist. Foren. Kjøbenhavn, ser. 4, 1: 78. 1879.
Other use: *Syrrhopodon incompletus* var. *lanceolatus* (Hampe) W. D. Reese, 1977.

C. latifolium Hampe in Lehmann, Pl. Preiss. 2: 116. 1846.
Other use: *Calymperastrum latifolium* (Hampe in Lehmann) Stone, 1986.

C. lonchophyllum Schwägrichen, 1816.

C. lonchophyllum subsp. *microblastum* (C. Müller ex Bescherelle) S. R. Edwards, J. Bryol. 11: 88. 1980.
Basionym: *Calymperes microblastum* C. Müller ex Bescherelle, 1895.

C. lonchophyllum subsp. *saxatile* (C. Müller ex Bescherelle) S. R. Edwards, J. Bryol. 11: 89. 1980.
Basionym: *Calymperes saxatile* C. Müller ex Bescherelle, 1895.

C. longifolium Mitten, J. Linn. Soc., Bot. 10: 173. 1868.
Other use: *Syrrhopodon perlongifolius* Schultze-Motel, 1973.

C. loreum Sande Lacoste, Natuurk. Verh. Kon. Akad. Wetensch. Amsterdam 13: 7. pl. 4: c. 1873.
Other use: *Syrrhopodon loreus* (Sande Lacoste) W. D. Reese, 1984.

C. microblastum C. Müller ex Bescherelle, Ann. Sci. Nat. Bot., ser. 8, 1: 272. 1895.
Other use: *Calymperes lonchophyllum* subsp. *microblastum* (C. Müller ex Bescherelle) S. R. Edwards, 1980.

C. mitrafugax Florschütz, Fl. Suriname 6(1): 129. f. 48. 1964.
Type: Surinam. Along Wane Creek, *Lanjouw & Lindeman 521*. Holotype: U.

C. mooreae Bescherelle, Bull. Soc. Bot. France 48: 14. 1901.
Other use: *Syrrhopodon mooreae* (Bescherelle) H. O. Whittier in H. O. Whittier & B. Whittier, 1974.

C. mussoriense Dixon, Anniv. Vol. Bot. Gard. Calcutta 178. 1942.
Original placement: sect. *Eu-Calymperes*.
Note: not in Index Muscorum.

C. norkettii L. Ellis, J. Bryol. 15: 733. f. 1. 1989.
Type: Seychelles. Mahe: upper Trois Freres River, ca 180 m, *Norkett 17492b*. Holotype: BM.

C. nymanii (Fleischer) W. D. Reese, Phytologia 56: 17. 1984.
Basionym: *Syrrhopodon nymanii* Fleischer, 1904.

Calymperes, continued.

C. palisotii Schwägrichen, 1816.

C. palisotii subsp. *richardii* (C. Müller) S. R. Edwards, J. Bryol. 11: 81. 1980.
Basionym: *Calymperes richardii* C. Müller, 1849.

C. peguense Bescherelle, Ann. Sci. Nat. Bot., ser. 8, 1: 269, 299. 1896.
Other use: *Heliconema peguense* (Bescherelle) L. Ellis & A. Eddy, 1989.

**C. piovanoi* Bizot, Rev. Bryol. Lichénol. 40: 116. pl. 9. 1974.
*invalid, single element not cited as holotype (Article 37.3).
Type: Colombia. Leticia, *Piovano s.n.* Herbaria: "herbiers Piovano et Bizot."

C. retusum Bescherelle, Ann. Sci. Nat. Bot., ser. 8, 1: 301. 1896.
Other use: *Mitthyridium retusum* (Bescherelle) W. D. Reese, 1987 [1988].

C. richardii C. Müller, Syn. Musc. Frond. 1: 524. 1849, "*richardi*."
Other use: *Calymperes palisotii* subsp. *richardii* (C. Müller) S. R. Edwards, 1980.

C. robinsonii B. C. Tan & W. D. Reese, Bull. Natl. Sci. Mus., Ser. B, Bot. 9: 30. f. 27-36. 1983.
Type: Philippines [Palawan Island]. Mt. Apis, *Ebalo & Conklin 32803*. Holotype: PNH; isotypes: CAHP, NICH, TNS.

C. robustiusculum Brotherus, Bot. Tidsskr. 24: 118. 1901.
Other use: *Syrrhopodon robustiusculus* (Brotherus) W. D. Reese & B. C. Tan, 1985 [1986].

C. rubiginosum (Mitten) W. D. Reese, Bryologist 78: 92. 1975.
Basionym: *Syrrhopodon rubiginosus* Mitten, 1869.

C. sarawakense Dixon, J. Linn. Soc., Bot. 50: 83. pl. 1: f. 12. 1935.
Other use: *Syrrhopodon sarawakensis* (Dixon) W. D. Reese, 1988.

C. saxatile C. Müller ex Bescherelle, Ann. Sci. Nat. Bot., ser. 8, 1: 272. 1895.
Other use: *Calymperes lonchophyllum* subsp. *saxatile* (C. Müller ex Bescherelle) S. R. Edwards, 1980.

C. sikkimense Gangulee, Nova Hedwigia 12: 421. pl. 3. 1966 [1967].
Type: India. Darjeeling, Punkhabaree, *Decoly & Schaul 255* (Bryoth. Levier). Holotype: BM.

C. sundarbanense Gangulee, Mosses E. India 3: 611. f. 293. 1972.
Type: India. Sundarban, Mechhua Reserve Forest, 2 miles N of Bay of Bengal, *Gangulee 5961*. Holotype: "herb. Gangulee."

C. tenerum C. Müller, 1872.

C. tenerum var. *teniolata* Gangulee, Mosses E. India 3: 600. f. 287. 1972.
Type: India. Calcutta, *Gangulee 774*. Holotype: "herb. Gangulee."

C. tenuifolium Sullivant, Proc. Amer. Acad. Arts 5: 280. 1861.
Other use: *Syrrhopodon prolifer* var. *tenuifolius* (Sullivant) W. D. Reese, 1978.

C. thwaitesii Bescherelle, 1896.

C. thwaitesii var. *javanicum* (Fleischer) Wijk & Margadant, Taxon 14: 196. 1965.
Basionym: *Calymperes fordii* var. *javanicum* Fleischer, 1904.
Note: invalid, basionym not cited (Article 33.2), in Index Muscorum 1: 413. 1959.

Calymperidium Dozy & Molkenboer, 1856.
C. aristifolium (Mitten) Schultze-Motel, Willdenowia 7: 363. 1974.
Basionym: *Syrrhopodon aristifolius* Mitten, 1868.
C. glaucovirens (Mitten) Schultze-Motel, Willdenowia 7: 364. 1974.
Basionym: *Syrrhopodon glaucovirens* Mitten, 1868.

Calymperopsis (C. Müller) Fleischer, 1913.
C. crenulata Tixier, Rev. Bryol. Lichénol. 35: 277. f. 4. 1967 [1968].
Type: Gabon. Lebagni, *Le Testu 5638*. Herbarium not specified by author.
**C. disciformis* (C. Müller) Tixier, Rev. Bryol. Lichénol. 35: 290. 1967 [1968].
*illegitimate, later homonym (Article 64.1).
Basionym: *Calymperes disciforme* C. Müller, 1848.
Earlier name: *Calymperopsis disciformis* (Dusén) Fleischer, 1913.
C. involuta Lin Pang-juan, Acta Phytotax. Sin. 17: 92. f. 1. 1979.
Type: China. Hainan, *Chen et al. 518c*. Holotype: ICSB; isotype: PE.
C. katemensis Zanten, Nova Guinea, Bot. 10(16): 282. pl. 24: f. 3. 1964.
Type: Indonesia [New Guinea]. Irian Barat: Katem, 200 m, *Zanten 286a*. Holotype: L; isotype: GRO.
C. langbianensis Tixier, Rev. Bryol. Lichénol. 35: 269. f. 13. 1967 [1968].
Type: Vietnam. Tueyn, Monts Lang Bian, 1800 m, *Tixier KB*. Herbarium not specified by author. Other indicated distribution: Cambodia, Thailand.
C. vietnamensis Ninh, Acta Bot. Acad. Sci. Hung. 27: 151. pl. 1: 1-8, pl. 2: 1-3. 1981.
Type: Vietnam. Tamdao, tropical lower montane evergreen rainforest, 1000 m, *Ninh*, 1969. Holotype: HNU.
+*C. yunfuensis* Wu Pan-cheng, Lou Jian-shing & Men Fan-son, Acta Phytotax. Sin. 14(1): 91. 1976.
Type: China. Guangdong: Yunfu County, Dajiangping, Wushiling, *Wang 4456*. Holotype: KUN.

Calyptothecium Mitten, 1868.
C. acostatum Lou Jian-shing, Acta Phytotax. Sin. 21: 224. f. 1: 10-12. 1983.
Type: China. Xizang: Bomi-Tongmai, 2300-2400 m, *Wu 1113*. Holotype: KUN; isotype: PE.
C. acutifolium (Bridel) Brotherus in Paris, 1904.
C. acutifolium var. *breviusculum* (C. Müller ex Dusén) Argent, J. Bryol. 7: 578. 1973 [1974].
Basionym: *Neckera breviuscula* C. Müller ex Dusén, 1895.
C. acutifolium var. *longiusculum* (C. Müller ex Dusén) Argent, J. Bryol. 7: 575. 1973 [1974].
Basionym: *Neckera longiuscula* C. Müller ex Dusén, 1895.
C. alare E. B. Bartram, Bryologist 48: 120. 1945.
Other use: *Pterobryopsis alaris* (E. B. Bartram) Noguchi, 1986.
C. auriculatum (Dixon) Noguchi, J. Hattori Bot. Lab. 47: 314. 1980.
Basionym: *Pterobryopsis auriculata* Dixon, 1937.

Calyptothecium, continued.

C. compressum Noguchi, Bull. Natl. Sci. Mus. 16: 310. f. 2. 1973.
Type: Sri Lanka. Nuwara Eliya: Hakgala Botanical Gardens, ca. 6100 feet, *Inoue 12834*. Holotype: TNS; isotype: NICH.

C. distichophyllum Noguchi & B. C. Tan in Noguchi, J. Hattori Bot. Lab. 57: 66. f. 3. 1984.
Type: Philippines [Samar]. Concord area, S of Cabayog City, W Samar, *Tan 75-344*. Holotype: NICH; isotype: CAHP.

C. dixonii Gangulee, Mosses E. India 5: 1371. f. 674. 1976.
Type: India. Assam: Charduar, *Bor 107*. Holotype: BM.

C. hoehnelii (C. Müller) Argent, J. Bryol. 7: 571. 1973 [1974].
Basionym: *Neckera hoehnelii* C. Müller, 1890.

C. integrifolium (E. B. Bartram) Noguchi, J. Hattori Bot. Lab. 47: 315. 1980.
Basionym: *Symphysodon integrifolius* E. B. Bartram, 1961.

C. phyllogonioides Noguchi & Li Xing-jiang, J. Jap. Bot. 63: 144. f. 1. 1988.
Type: China. Yunnan: Hsishuang Panna Autonomous Pref., Mangla Co., 2400 m, *Li 80-2083*. Holotype: NICH; isotype: HKAS.

C. planifrons (Renauld & Paris) Argent, J. Bryol. 7: 565. 1973 [1974].
Basionym: *Garovaglia planifrons* Renauld & Paris, 1902.

C. prainii Brotherus ex Gangulee, Mosses E. India 5: 1378. f. 678. 1976.
Type: India. Manipur, *Prain*, 1886. Holotype: CAL.

C. pterobryoides Argent, J. Bryol. 7: 568. f. 2-3. 1973 [1974].
Type: Uganda., *Wood*, 1950. Holotype: P [sic, PC]; isotype: BM.

C. squarrosulum Noguchi & B. C. Tan in Noguchi, J. Hattori Bot. Lab. 57: 64. f. 2. 1984.
Type: Philippines [Luzon]. Mt. Marisik-risik, ca. 380 m, *Tan 74-359*. Holotype: NICH; isotype: CAHP.

C. subcrispulum Brotherus ex Fleischer, 1908.

C. subcrispulum subsp. *flaccidum* Noguchi, J. Hattori Bot. Lab. 58: 96. f. 7. 1985.
Type: New Caledonia. Foot of Plateau de Dogny, NE of Sarromea, 200 m, *Iwatsuki 16914*. Holotype: NICH.

Calyptrochaeta Desvaux, 1825.

C. albescens (Hampe) Buck, Brittonia 39: 223. 1987.
Basionym: *Lepidopilum albescens* Hampe, 1878.

C. apiculata (J. D. Hooker & Wilson) Vitt, Canad. J. Bot. 57: 2251. 1979.
Basionym: *Hookeria apiculata* J. D. Hooker & Wilson, 1844.

C. asplenioides (Bridel) Crosby, Rev. Bryol. Lichénol. 42: 712. 1976.
Basionym: *Pterygophyllum asplenioides* Bridel, 1819 [1818].

C. brownii (Dixon) Bartlett, Auckland Bot. Soc. Bull. 15: 15. 1985.
Basionym: *Eriopus brownii* Dixon, 1927.

C. deflexa (C. Müller) Churchill, Trop. Bryol. 1: 119. 1989.
Basionym: *Eriopus deflexus* C. Müller, 1874.

C. enervis (Noguchi & Iwatsuki) Touw, J. Hattori Bot. Lab. 44: 150. 1978.
Basionym: *Eriopus enervis* Noguchi & Iwatsuki, 1972.

Calyptrochaeta, continued.

C. flaccida (Brotherus) Iwatsuki, B. C. Tan & Touw in Touw, J. Hattori Bot. Lab. 44: 150. 1978.
Basionym: *Eriopus flaccidus* Brotherus, 1918.

C. flexicollis (Mitten in J. D. Hooker) Vitt, Canad. J. Bot. 57: 2251. 1979.
Basionym: *Hookeria flexicollis* Mitten in J. D. Hooker, 1867.

C. grandiretis (Brotherus in Skottsberg) H. Robinson, Smithsonian Contr. Bot. 27: 71. 1975.
Basionym: *Eriopus grandiretis* Brotherus in Skottsberg, 1924.

C. haitensis (H. Crum & Steere) Crosby, Brenesia 4: 10. 1974.
Basionym: *Eriopus haitensis* H. Crum & Steere, 1958.

C. japonica (Cardot & Thériot) Iwatsuki & Noguchi, J. Hattori Bot. Lab. 46: 236. 1979.
Basionym: *Eriopus japonicus* Cardot & Thériot, 1908.

C. leptoloma (Brotherus in Skottsberg) H. Robinson, Smithsonian Contr. Bot. 27: 72. 1975.
Basionym: *Eriopus leptoloma* Brotherus in Skottsberg, 1924.

C. marginata (Thériot) Pursell & W. D. Reese, J. Hattori Bot. Lab. 53: 466. 1982.
Basionym: *Eriopus marginatus* Thériot, 1909.

C. nutans (Hampe) Churchill, Trop. Bryol. 1: 119. 1989.
Basionym: *Lepidopilum nutans* Hampe, 1863.

C. odontoloma (Matteri) Matteri in Boelcke, D. M. Moore & F. Roig, Transecta Bot. Patagonia Austral 272. 1985.
Basionym: *Eriopus odontoloma* Matteri, [1975] 1976.

C. parviretis (Fleischer) Iwatsuki, B. C. Tan & Touw in Touw, J. Hattori Bot. Lab. 44: 150. 1978.
Basionym: *Eriopus parviretis* Fleischer, 1908.

C. pocsii Ninh, Acta Bot. Acad. Sci. Hung. 27: 157. pl. 1: 9-13, pl. 4: 1-4. 1981.
Type: Vietnam. Tamdao, tropical lower montane evergreen rainforest, 1350 m, *Ninh*, 1968. Holotype: HNU.

C. remotifolia (C. Müller) Iwatsuki, B. C. Tan & Touw in Touw, J. Hattori Bot. Lab. 44: 150. 1978.
Basionym: *Eriopus remotifolius* C. Müller, 1847.

C. rotundifolia (Noguchi & Iwatsuki) Touw, J. Hattori Bot. Lab. 44: 150. 1978.
Basionym: *Eriopus rotundifolius* Noguchi & Iwatsuki, 1972.

C. setigera (Mitten) Buck, Brittonia 39: 223. 1987.
Basionym: *Eriopus setigerus* Mitten, 1869.

C. spinosa (Noguchi) Ninh, Acta Bot. Acad. Sci. Hung. 27: 159. 1981.
Basionym: *Eriopus spinosus* Noguchi, 1937.
Note: redundant combination in S. H. Lin, J. Taiwan Mus. 37(2): 55. 1984.

Camptochaete Reichardt, 1870.

C. orbiculata (Thériot) H. Robinson, Phytologia 20: 329. 1970.
Basionym: *Weymouthia orbiculata* Thériot, 1934 [1935].

Camptochaete, continued.
C. thamnioides Brotherus & Dixon, J. Bot. 53: 290. pl. 540: f. 6. 1915.
Other use: *Dixonia thamnioides* (Brotherus & Dixon) Horikawa & Ando in Kira & Umesao, 1964.

Camptothecium W. P. Schimper in B.S.G., 1853.
C. sect. *Trachybryum* Brotherus, Nat. Pflanzenfam. 1(3): 1140. 1908.
Other use: *Homalothecium* subgen. *Trachybryum* (Brotherus) H. Robinson, 1962 [1963], *Trachybryum* (Brotherus) Schofield, 1968.
C. megaptilum Sullivant, Icon. Musc. Suppl. 102. pl. 78. 1874.
Other use: *Homalothecium megaptilum* (Sullivant) H. Robinson, 1962 [1963].
C. nitens (Hedwig) W. P. Schimper, 1860.
C. nitens var. *falcifolium* Renauld ex Nichols, Rhodora 15: 12. 1913.
Other use: *Homalothecium nitens* var. *falcifolium* (Renauld ex Nichols) Wijk & Margadant, 1965, *Tomentypnum falcifolium* (Renauld ex Nichols) Tuomikoski in Ahti & Fagerstén, 1967.
C. nitens var. *involutum* Limpricht, Laubm. Deutschl. 3: 60. 1895.
Other use: *Homalothecium nitens* var. *involutum* (Limpricht) Wijk & Margadant, 1965.

Campyliadelphus (Kindberg) R. S. Chopra, Taxon. Indian Mosses 442. 1975.
Basionym: *Hypnum* sect. *Campyliadelphus* Kindberg, 1883.
C. chrysophyllus (Bridel) R. S. Chopra, Taxon. Indian Mosses 443. 1975, "*chrysophyllum*."
Basionym: *Hypnum chrysophyllum* Bridel, 1801.
Note: invalid, basionym not cited (Article 33.2), in Taxon. Indian Mosses 435. 1975; redundant combination, in Kanda, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 15: 264. 1975 [1976].
C. elodes (Lindberg in C. J. Hartman) Kanda, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 15: 273. 1975 [1976].
Basionym: *Amblystegium elodes* Lindberg in C. J. Hartman, 1871.
Note: invalid, basionym not cited (Article 33.2), in R. S. Chopra, Taxon. Indian Mosses 443. 1975.
C. polygamus (W. P. Schimper in B.S.G.) Kanda, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 15: 267. 1975 [1976].
Basionym: *Amblystegium polygamum* W. P. Schimper in B.S.G., 1853.
C. protensus (Bridel) Kanda, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 15: 263. 1975 [1976].
Basionym: *Hypnum protensum* Bridel, 1801.
Note: invalid, basionym not cited (Article 33.2), in R. S. Chopra, Taxon. Indian Mosses 443. 1975.
C. stellatus (Hedwig) Kanda, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 15: 269. 1975 [1976].
Basionym: *Hypnum stellatum* Hedwig, 1801.

Campyliadelphus, continued.

C. stellatus var. *brotheri* (Iishiba) Kanda, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 15: 272. 1975 [1976].

Basionym: *Campylium stellatum* var. *brotheri* Iishiba, 1932.

C. stellatus var. *protensus* (Bridel) Ochyra, Fragm. Florist. Geobot. 28: 466. 1982 [1984].

Basionym: *Hypnum protensum* Bridel, 1801.

Campylium (Sullivant in A. Gray) Mitten, 1869.

C. calcareum Crundwell & Nyholm, Trans. Brit. Bryol. Soc. 4: 198. f. 2: b. 1962 [1963].

C. campylophylloides (Ando & Nishimura in Iwatsuki) Nishimura, J. Hattori Bot. Lab. 58: 73. 1985.

Basionym: *Ctenidium campylophylloides* Ando & Nishimura in Iwatsuki, 1979.

C. gollanii C. Müller ex Vohra, Bull. Bot. Surv. India 12: 101. f. 1-13. 1970 [1972].

Type: India. Western Himalaya, Tehri-Garhwal, Jamna-Chetty, 1600 m, *Arora 19*. Holotype: CAL; isotype: BSD.

C. hispidulum (Bridel) Mitten, 1869.

C. hispidulum subfo. *longifolium* Podpera, Zprávy Kommis. Prir. Prozk. Moravi 9: 18. 1932.

Other use: *Campylium polymorphum* subfo. *moravica* Pilous, 1963.

C. longicuspis (Lindberg & H. Arnell) Hedenäs, Lindbergia 14: 144. 1989.

Basionym: *Amblystegium longicuspis* Lindberg & H. Arnell, 1890.

C. pachytheca Dixon, Notes Roy. Bot. Gard. Edinburgh 19: 295. 1938.

Other use: *Brachythecium pachytheca* (Dixon) Vohra, 1979 [1981].

C. polygamum (W. P. Schimper in B.S.G.) C. E. O. Jensen, 1887.

**C. polygamum* fo. *stagnatum* (Wilson) Nyholm, Ill. Moss Fl. Fennoscandia. II. Musci 476. 1965.

*invalid, basionym not cited (Article 33.2).

C. polymorphum (Hedwig) Pilous, Preslia 35: 299. 1963.

Basionym: *Hypnum polymorphum* Hedwig, 1801.

C. polymorphum subfo. *attenuatum* (Podpera) Pilous, Preslia 35: 300. 1963, "*attenuata*."

Basionym: *Campylium sommerfeltii* subfo. *attenuatum* Podpera, 1923.

C. polymorphum fo. *corticola* (G. Roth) Pilous, Preslia 35: 300. 1963.

Basionym: *Campylium sommerfeltii* var. *corticola* G. Roth, 1905.

C. polymorphum fo. *integrum* (Podpera) Pilous, Preslia 35: 300. 1963.

Basionym: *Campylium sommerfeltii* var. *integrum* Podpera, 1923.

C. polymorphum subfo. *longifolium* (Podpera) Pilous, Preslia 35: 300. 1963.

Basionym: *Chrysohypnum sommerfeltii* fo. *longifolium* Podpera, 1921.

C. polymorphum subfo. *moravica* Pilous, Preslia 35: 300. 1963.

Replaced name: *Campylium hispidulum* subfo. *longifolium* Podpera, 1932.

Blocking name: *Campylium polymorphum* subfo. *longifolium* (Podpera) Pilous, 1963.

Campylium, continued.

C. polymorphum fo. *serratulum* (Podpera) Pilous, Preslia 35: 300. 1963.
Basionym: *Campylium sommerfeltii* var. *serratulum* Podpera, 1923.

C. polymorphum fo. *tenuissimum* (H. Winter) Pilous, Preslia 35: 300. 1963.
Basionym: *Campylium sommerfeltii* var. *tenuissimum* H. Winter, 1910.

C. pulchrum Kanda, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 15: 260. f. 25: 9-20; 26. 1975 [1976].
Type: Japan [Hokkaido]. NK-54-14, Chitose, 50 m, *Kanda 2312B*. Holotype: HIRO.

C. quisqueyanum Buck, Beih. Nova Hedwigia 90: 338. 1988.
Type: Dominican Republic. La Estrelleta: Sierra de Neiba, 4600-6000 feet, *Buck 4541*. Holotype: NY.

C. rishiriense Kanda, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 15: 259. f. 25: 1-8; 26. 1975 [1976].
Type: Japan [Hokkaido]. NL-54-17, Rishirito, Himenuma, 140 m, *Kanda 8519B*. Holotype: HIRO.

C. sommerfeltii (Myrin) J. M. Lange, 1887.

C. sommerfeltii subfo. *attenuatum* Podpera, Sborn. Klubu Prír. v Brne 5: 26. 1923.
Other use: *Campylium polymorphum* subfo. *attenuatum* (Podpera) Pilous, 1963.

C. sommerfeltii var. *corticola* G. Roth, Eur. Laubm. 2: 656. 1905.
Other use: *Campylium polymorphum* fo. *corticola* (G. Roth) Pilous, 1963.

C. sommerfeltii var. *integrum* Podpera, Sborn. Klubu Prír. v Brne 5: 25. 1923.
Other use: *Campylium polymorphum* fo. *integrum* (Podpera) Pilous, 1963.

C. sommerfeltii var. *serratulum* Podpera, Sborn. Klubu Prír. v Brne 5: 26. 1923.
Other use: *Campylium polymorphum* fo. *serratulum* (Podpera) Pilous, 1963.

**C. sommerfeltii* fo. *stragulum* (I. Hagen) Nyholm, Ill. Moss Fl. Fennoscandia. II. Musci 481. 1965.
*invalid, basionym not cited (Article 33.2).

C. sommerfeltii var. *tenuissimum* H. Winter, Hedwigia 49: 376. 1910.
Other use: *Campylium polymorphum* fo. *tenuissimum* (H. Winter) Pilous, 1963.

C. squarrifolium C. Müller ex Brotherus, Bot. Jahrb. Syst. 24: 262. 1897.
Other use: *Ectropothecium squarrifolium* (C. Müller ex Brotherus) Nishimura, 1985.

C. squarrosulum (Bescherelle in Cardot) Kanda, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 15: 258. 1975 [1976].
Basionym: *Amblystegium squarrosulum* Bescherelle in Cardot, 1913.

C. stellatum (Hedwig) C. E. O. Jensen, 1887.

C. stellatum var. *brotheri* Iishiba, Nihon-Senrui Bunrui 72. 1932.
Other use: *Campyliadelphus stellatus* var. *brotheri* (Iishiba) Kanda, 1975 [1976].

C. tenerum (Brotherus) Nishimura, J. Hattori Bot. Lab. 58: 73. 1985.
Basionym: *Ctenidium tenerum* Brotherus, 1921.

Campylodontium Dozy & Molkenboer, 1844.
**C. taxiphylloides* Horikawa & Ando in Kira & Umesao, Nat. Life Southe. Asia 3: 31. 1964.
*invalid, no description (Article 36.1).

Campylopodiella Cardot, 1908.
C. crenulata Frahm, Norris & T. Koponen, Ann. Bot. Fenn. 25: 259. f. 1. 1988.
Type: Papua New Guinea. Morobe: Mount Kaindi Road 3 km W of Wau, 1500 m, *Streimann 34135*. Holotype: herb. Frahm; isotypes: CBG, HSC.
C. ditrichoides Noguchi, Candollea 19: 170. pl. 1. 1964.
Type: Nepal. Thyangboche, 27°51' N, 86°46' E, 3850 m, *Zimmermann 662b*. Herbarium not specified by author.
C. diversifolia J. Leroy & Thériot in J. Leroy, Bull. Jard. Bot. État 18: 200. f. 22. 1947.
Other use: *Campylopus diversifolius* (J. Leroy & Thériot in J. Leroy) Takaki, 1973.
C. flagellacea (C. Müller) Frahm & Isoviita, Taxon 37: 968. 1988.
Basionym: *Dicranum flagellaceum* C. Müller, 1851.
C. himalayana (Brotherus) Frahm, Bryologist 87: 250. 1984.
Basionym: *Brothera himalayana* Brotherus, 1901.
C. malagensis (Herzog) Frahm, Bryologist 87: 250. 1984.
Basionym: *Campylopus malagensis* Herzog, 1916.
C. stenocarpa (Wilson in Seemann) P. Müller & Frahm, Nova Hedwigia 45: 290. 1987.
Basionym: *Trichostomum stenocarpum* Wilson in Seemann, 1856.

Campylopodium (C. Müller) Bescherelle, 1873.
C. laevigatum Thériot, Recueil Publ. Soc. Havraise Études Diverses 1925: 126. illustration. 1926.
Other use: *Microcampylopus laevigatus* (Thériot) Giese & Frahm, 1986.
C. medium (Duby in Moritzi) Giese & Frahm, Acta Bot. Fenn. 131: 68. 1985.
Basionym: *Didymodon medius* Duby in Moritzi, 1846.

Campylopus Bridel, 1818.
C. subgen. *Campylopidulum* Vital, Cryptog. Bryol. Lichénol. 5: 16. 1984.
Type: *C. perpusillus* Mitten, holotype.
**C.* sect. *Crassinervi* Bizot & Kilbertus, Rev. Bryol. Lichénol. 45: 64. 1979.
*illegitimate, type of earlier name included (Article 63.1).
Correct name: *Campylopus* sect. *Brevipili* Brotherus, 1901.
Type: *C. brevipilus* Bruch & W. P. Schimper, holotype.
Original placement: *C.* subgen. *Campylopus*.
C. subgen. *Lucidus* Bizot & Kilbertus, Rev. Bryol. Lichénol. 45: 64. 1979.
Type: *C. subulatus* W. P. Schimper, holotype.
C. abbreviatus (Dixon) Manuel, Fed. Mus. J. 26: 161. 1981.
Basionym: *Thysanomitrion abbreviatum* Dixon, 1924.

Campylopus, continued.

C. acuminatus Mitten, 1869.

**C. acuminatus* var. *kirkii* (Mitten in G. R. Beck) Frahm, J. Bryol. 14: 702. 1987.
*illegitimate, type of earlier name included (Article 63.1).
Basionym: *Campylopus kirkii* Mitten in G. R. Beck, 1893 [1894].
Earlier name: *Campylopus kirkii* var. *pilosus* Frahm, 1981.

C. alatus (Brotherus ex Iishiba) Iwatsuki & Noguchi, J. Jap. Bot. 48: 215. 1973.
Basionym: *Thysanomitrion alatum* Brotherus ex Iishiba, 1929.

C. angusticosta Frahm, Bryoph. Biblioth. 5: 17. 1975.
Replaced name: *Campylopus angustinervis* Herzog, 1949.
Blocking name: *Campylopus angustinervis* Dixon, 1922.

C. angustifolius Warnstorf, Hedwigia 57: 81. f. 16. 1915.
Other use: *Campylopus pilifer* fo. *angustifolius* (Warnstorf) Frahm, 1979.

**C. angustilimbatus* E. B. Bartram, Trans. Brit. Bryol. Soc. 1: 466. 1951.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Campylopus angustelimbatus* Thériot & Potier de la Varde, 1924.
Correct name: *Campylopus australis* Catcheside & Frahm, 1985.

**C. angustinervis* Herzog, Memoranda Soc. Fauna Fl. Fennica 25: 54. f. 1. 1949.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Campylopus angustinervis* Dixon, 1922.
Correct name: *Campylopus angusticosta* Frahm, 1975.

C. aoraiensis H. O. Whittier, Mosses Society Isl. 89. f. 24: e-h. 1976.
Type: Tahiti. Mt. Aorai, 1500 m, *Whittier 2762A*. Holotype: NY.

C. arbogastii Renauld & Cardot in Renauld, Rev. Bot. Bull. Mens. 9: 289. 1891, "*arbogasti*."
Other use: *Campylopus julaceus* subsp. *arbogastii* (Renauld & Cardot in Renauld) Frahm, 1985.

C. arctocarpus (Hornschuch) Mitten, 1869.

C. arctocarpus subsp. *caldensis* (Ångström) Frahm, Rev. Bryol. Lichénol. 45: 137. 1979.
Basionym: *Campylopus caldensis* Ångström, 1876.

C. arctocarpus subsp. *madecassus* (Bescherelle) Frahm, Bryoph. Biblioth. 31: 16. 1985.
Basionym: *Campylopus madecassus* Bescherelle, 1880.

C. arctocarpus fo. *strictifolius* (Brotherus) Frahm, Rev. Bryol. Lichénol. 45: 138. 1979.
Basionym: *Campylopus strictifolius* Brotherus, 1891.

C. arenaceus (Brotherus) Frahm, J. Bryol. 8: 258. 1974, "*arenaceum*."
Basionym: *Thysanomitrion arenaceum* Brotherus, 1927.

**C. atratus* E. B. Bartram, Contr. U.S. Natl. Herb. 26: 61. f. 4. 1928.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Campylopus atratus* Brotherus, 1901.
Correct name: *Campylopus paramoensis* F. D. Bowers, 1974.

Campylopus, continued.

C. atratus var. *sabaensis* Florschütz, Acta Bot. Neerl. 15: 526. 1967.
Type: Guyana. Saba: top of Mt. Roraima, ca. 900 m, *Arnoldo 3354A*. Holotype: U.

C. atrofuscescens E. B. Bartram, Contr. U.S. Natl. Herb. 37: 46. 1965.
Type: Papua New Guinea. Mt. Wilhelm, 13,100 feet, *Collins 29941*. Holotype: US.

C. atrovirens De Notaris, 1838.

C. atrovirens var. *cucullatifolius* Frahm, Bryologist 83: 574. f. 1. 1980 [1981].
Type: U.S.A. Alaska: Washington Bay, Kuju Island, *Eyerdam 5269*. Holotype: DUKE.

C. aureonitens (C. Müller) Jaeger, 1872.

C. aureonitens subsp. *recurvifolius* (Dusén) Frahm, Bryol. Beitr. 7: 95. 1987.
Basionym: *Campylopus recurvifolius* Dusén, 1905.

C. australis Catcheside & Frahm, J. Bryol. 13: 360. 1985.
Replaced name: *Campylopus angustilimbatus* E. B. Bartram, 1951.
Blocking name: *Campylopus angustelimbatus* Thériot & Potier de la Varde, 1924.

C. azoricus Mitten in Godman, Nat. Hist. Azores 292. 1870.
Other use: *Campylopus pyriformis* var. *azoricus* (Mitten in Godman) Corley, 1976.

C. bartlettii E. B. Bartram, J. Wash. Acad. Sci. 22: 477. f. 1. 1932, "*bartletti*."
Other use: *Campylopus savannarum* subsp. *bartlettii* (E. B. Bartram) Florschütz, 1964.

C. bicolor (C. Müller) Wilson in J. D. Hooker, 1854.

C. bicolor subsp. *atroluteus* (C. Müller) Frahm, Bryoph. Biblioth. 31: 37. 1985.
Basionym: *Dicranum atroluteum* C. Müller, 1899.

C. bolivianus Thériot ex Frahm, Lindbergia 7: 28. 1981.
Type: Bolivia. Sillunticava, Yungas de la Paz, *Troll 122a*. Holotype: PC-Thériot; isotype: JE.

C. breweri E. B. Bartram, Bol. Soc. Venez. Ci. Nat. 25: 35. f. 1-2. 1963.
Type: Venezuela. Merida: Sierra del la Culata, 3400 m, *Brewer*, 1960. Holotype: herb. Bartram; isotype: VEN.

C. bryotropii Frahm, Nova Hedwigia 39: 152. f. 1. 1984.
Type: Peru. Ancash: Cordillera Blanca, Laguna Llanganuco, 3850 m, *Frahm 825118*. Holotype: B; isotype: herb. Frahm.

C. caldensis Ångström, Öfvers. Förh. Kongl. Svenska Vetensk.-Akad. 33(4): 5. 1876.
Other use: *Campylopus arctocarpus* subsp. *caldensis* (Ångström) Frahm, 1979.

C. canescens (C. Müller) W. P. Schimper in Jaeger, 1872.

C. canescens fo. *perincanus* (C. Müller) Frahm, Bryoph. Biblioth. 5: 30. 1975.
Basionym: *Dicranum perincanum* C. Müller, 1885.

C. cavernosus Frahm, Nova Hedwigia 29: 245. f. 1. 1978.
Type: Brazil. Rio de Janeiro: Pico das Agulhas Negras, Itatiaia National Park, 276 m, *Vital DV-4921*. Holotype: SP; isotypes: B, U.

Campylopus, continued.

C. cerradensis Vital, Cryptog. Bryol. Lichénol. 5: 20. f. 5-6. 1984.
Type: Brazil. Sao Paulo: Itirapina, *Vital 1714*. Holotype: SP; isotypes: BA, BM, H, NICH, NY, PC, U.

C. chrismarii (C. Müller) Mitten, 1869.

C. chrismarii var. *suboblongus* (Herzog) Frahm, J. Hattori Bot. Lab. 48: 209. 1980.
Basionym: *Campylopus suboblongus* Herzog, 1942.

C. chrismarii var. *tolucensis* (E. B. Bartram) Frahm, Bryologist 80: 120. 1977.
Basionym: *Campylopus tolucensis* E. B. Bartram, 1945.

C. cleefii Frahm, Cryptog. Bryol. Lichénol. 7: 441. f. 1-6. 1986.
Type: Colombia. Boyaca: Paramo La Rusia, *Cleef 6269*. Holotype: U; isotype: herb. Frahm.
Original placement: subgen. *Campylopus*.

C. comatus Renauld & Cardot in Renauld, Rev. Bot. Bull. Mens. 9: 290. 1891.
Other use: *Campylopus trachyblepharon* subsp. *comatus* (Renauld & Cardot in Renauld) Frahm, 1985.

C. crispifolius E. B. Bartram, Contr. U.S. Natl. Herb. 37: 45. 1965.
Type: Papua New Guinea. Mt. Wilhelm, 3560 m, *Brass 29894*. Holotype: US.

C. cuatrecasii H. Robinson, Bryologist 70: 16. f. 16-21. 1967.
Type: Colombia. Cauca: Central Cordillera, vertiente occidental, Cabeceras del Rio Palo, altos paramos entre Quebrada de San Paulino y quebrada del Lopez, Lagunilla de Las Casitas, 3700 m, *Cuatrecasas 19090a*. Holotype: US; isotype: COL.

C. cubensis Sullivant, 1861.

C. cubensis var. *exaltatus* (C. Müller) Frahm, Nova Hedwigia 41: 275. 1985.
Basionym: *Dicranum exaltatum* C. Müller, 1879.

C. cuspidatus (Hornschuch) Mitten, 1869.

C. cuspidatus var. *dicnemoides* (C. Müller) Frahm, Rev. Bryol. Lichénol. 45: 143. 1979 [10 May].
Basionym: *Dicranum dicnemoides* C. Müller, 1898.
Note: republished in Herzogia 5: 108. 1 Sep 1979.

C. damazii Brotherus, Akad. Wiss. Wien, Math.-Naturwiss. Kl., Denkschr. 83: 260. 1927.
Other use: *Campylopus praealtus* var. *damazii* (Brotherus) Frahm, 1979, *Campylopus subcuspidatus* var. *damazii* (Brotherus) Frahm, 1987.

C. densicoma (C. Müller) Paris, 1900.

C. densicoma var. *yungarum* (Herzog) Frahm, Nova Hedwigia 39: 156. 1984.
Basionym: *Campylopus yungarum* Herzog, 1910.

C. densifolius Ångström, Öfvers. Förh. Kongl. Svenska Vetensk.-Akad. 29(4): 18. 1872.
Other use: *Campylopus hawaiicus* var. *densifolius* (Ångström) Frahm, 1978.

C. diversifolius (J. Leroy & Thériot in J. Leroy) Takaki, J. Hattori Bot. Lab. 37: 516. 1973.
Basionym: *Campylopodiella diversifolia* J. Leroy & Thériot in J. Leroy, 1947.

Campylopus, continued.

C. durelii Gangulee, Nova Hedwigia 8: 146. pl. 4. 1964, "*durelli*."
Type: Bhutan. Inter Maria Basti et Lazar, *Durel*, 1898 (Bryoth. Levier). Holotype: BM.
Note: invalid, no description (Article 41.3), in Brotherus in Paris, Index Bryol. Suppl. 91. 1900.

C. exasperatus (Nees & Blume) Bridel, 1826.

C. exasperatus var. *lorentzii* (Fleischer) Frahm, Acta Bot. Fenn. 131: 80. 1985.
Basionym: *Pilopogon lorentzii* Fleischer, 1911.

C. filifolius (Hornschuch) Mitten, 1869.

C. filifolius var. *humilis* (Montagne) Frahm, Nova Hedwigia 29: 249. 1978.
Basionym: *Campylopus humilis* Montagne, 1845.

C. flaccidus Renauld & Cardot, 1893.

C. flaccidus fo. *epilosus* Bizot in Bizot, Dury & Pócs, Acta Bot. Acad. Sci. Hung. 22: 4. 1976 [1977], "*epilosa*."
Type: Malawi. Mulanje Mts., Lichenya Plateau, 1800-2000 m, *Ryvarden 11775*. Holotype: O.

C. flavicoma C. Müller ex Brotherus, Bot. Jahrb. Syst. 24: 235. 1897.
Other use: *Bryohumbertia flavicoma* (C. Müller ex Brotherus) Frahm, 1982.

C. flexuosus (Hedwig) Bridel, 1819 [1818].

**C. flexuosus* var. *incacorralis* (Herzog) Frahm, Bryol. Beitr. 7: 35. 1987.
*invalid, basionym not cited (Article 33.2).

C. flindersii Catcheside & Frahm, J. Bryol. 13: 363. f. 3. 1985.
Type: Australia. Flinders Ranges, Mt. Remarkable, Melrose, *Catcheside 53.169*. Holotype: AD; isotypes: BM, herb. Catcheside, herb. Frahm.

C. fragiliformis Frahm, Rev. Bryol. Lichénol. 45: 147. 1979.
Type: Brazil. Rio de Janeiro: Parque Nacional Itatiaia, Agulhas Negras, 2400 m, *Frahm 1637*. Holotype: herb. Frahm; isotypes: ALTA, B, MO, SP, U.
Other use: *Campylopus fragilis* subsp. *fragiliformis* (Frahm) Frahm, 1987.

C. fragilis (Bridel) Bruch & W. P. Schimper in B.S.G., 1847.

C. fragilis subsp. *fragiliformis* (Frahm) Frahm, Bryol. Beitr. 7: 97. 1987.
Basionym: *Campylopus fragiliformis* Frahm, 1979.

C. fragilis fo. *muelleri* (Juratzka in Rabenhorst) Smirnova, Novosti Sist. Niz. Rast. 6: 254. 1969 [1970].
Basionym: *Campylopus muelleri* Juratzka in Rabenhorst, 1862.

C. fragilis var. *obscurus* Thériot & Bizot, Bull. Mens. Soc. Linn. Soc. Bot. Lyon 34: 308. 1965.
Type: Cuba. Sierra Maestra, *Hioram 11222*. Holotype: herb. Thériot.

C. fragilis fo. *submersus* (J. B. Jack ex Limpricht) Margadant, Lindbergia 1: 126. 1972, "*submersum*."
Basionym: *Campylopus torfaceus* var. *submersus* J. B. Jack ex Limpricht, 1887.

Campylopus, continued.

C. galapagensis Frahm & Sipman, J. Bryol. 10: 61. f. 1. 1978.
Type: Galapagos Islands. Santa Cruz, base of Mt. Crocker, 750-800 m, *Gradstein & Weber M-17*. Holotype: U; isotypes: CDRS, COLO, QCA.
Other use: *Campylopus pilifer* subsp. *galapagensis* (Frahm & Sipman) Frahm, 1987.

C. griseus (Hornschuch) Jaeger, 1872.

C. griseus var. *lapidicola* (C. Müller) Frahm, Bryoph. Biblioth. 5: 61. 1975.
Basionym: *Dicranum lapidicola* C. Müller, 1900.

C. hawaiicus (C. Müller) Jaeger, 1872.

C. hawaiicus var. *densifolius* (Ångström) Frahm, Rev. Bryol. Lichénol. 44: 50. 1978.
Basionym: *Campylopus densifolius* Ångström, 1872.

C. hawaiicus var. *hawaiicoflexuosus* (C. Müller) Frahm, Rev. Bryol. Lichénol. 44: 50. 1978.
Basionym: *Dicranum hawaiicoflexuosum* C. Müller, 1896.
Note: valid, error of bibliographic citation of basionym (Article 33.2), "Abh. Naturwiss. Vereine Bremen 16: 494. 1900."

C. humilis Montagne, Ann. Sci. Nat. Bot., ser. 3, 4: 110. 1845.
Other use: *Campylopus filifolius* var. *humilis* (Montagne) Frahm, 1978.

C. incurvatus Frahm & Hoe, Bryologist 81: 449. f. 1-8. 1978.
Type: U.S.A. Hawaii: Hawaii, E Mauna Kea, S Hilo District, Hilo Forest Reserve, Kolekole Stream above Akaka Falls State Park, 585 m, *Balakrishnan & Jacobi 3032*. Holotype: herb. Frahm; isotypes: BISH, MICH, MO, NICH, U, herb. Hoe. Paratype cited.

C. julaceus Jaeger, 1880.

C. julaceus subsp. *arbogastii* (Renauld & Cardot in Renauld) Frahm, Bryoph. Biblioth. 31: 109. 1985.
Basionym: *Campylopus arbogastii* Renauld & Cardot in Renauld, 1891.

C. kingii H. Robinson, Bryologist 70: 18. f. 7-15. 1967.
Type: Colombia. Cundinamarca: Eastern Cordillera, 26 km NE of Fusagasuga, 2600 m, *King & Guevara C-1132*. Holotype: US; isotype: COL.

C. kirkii Mitten in G. R. Beck, Trans. & Proc. New Zealand Inst. 26: 280. pl. 30. 1893 [1894].
Other use: *Campylopus acuminatus* var. *kirkii* (Mitten in G. R. Beck) Frahm, 1987.

C. kirkii var. *pilosus* Frahm, Lindbergia 7: 30. f. 1. 1981.
Type: New Zealand. North Island: swamp near junction of Kaiiwi Lake and Taharoa Lake 800 feet, *Bartlett s.n.* Holotype: CHR; isotypes: herb. Bartlett, herb. Frahm.

C. kouroussensis Renauld & Paris, Rev. Bryol. 30: 66. 1903.
Other use: *Microcampylopus kouroussensis* (Renauld & Paris) Richards & Clear, 1967.

C. laetevirens (Brotherus) Frahm, Rev. Bryol. Lichénol. 41: 328. 1975.
Basionym: *Thysanomitrion laetevirens* Brotherus, 1924.

Campylopus, continued.

C. lamellatus Montagne, Ann. Sci. Nat. Bot., ser. 2, 9: 52. 1838.
Other use: *Campylopus pilifer* var. *lamellatus* (Montagne) Gradstein & Sipman, 1978.

C. lamellinervis (C. Müller) Mitten, 1869.

C. lamellinervis var. *exaltatus* (C. Müller) Frahm, Bryoph. Biblioth. 5: 78. 1975.
Basionym: *Dicranum exaltatum* C. Müller, 1879.

**C. laxiretis* E. B. Bartram, Ark. Bot., ser. 2, 4: 30. 1957.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Campylopus laxiretis* Herzog, 1910.
Correct name: *Campylopus masafuerae* Frahm, 1975.

C. laxoventralis Herzog ex Frahm, Nova Hedwigia 31: 428. f. 1. 1979.
Type: Chile. Fray Jorge, Trigre Zapallar, *Schwabe 232*. Holotype: JE.

C. longicellularis Frahm, Cryptog. Bryol. Lichénol. 7: 443. f. 7-13. 1986.
Type: Colombia. Meta: Paramo de Sumapaz, Cerro Nevado del Sumapaz, *Cleefe 777a*. Holotype: U; isotype: herb. Frahm. Other indicated distribution: Venezuela.

C. longigemmatus Gao Chien in Gao Chien, Zhang Man-xiang & Cao Tong, Acta Bot. Yunnan. 3: 392. f. 3: 1-12. 1981.
Type: China. Xizang: Districtus Cona Xian, 2900 m, *Chen 5152a*. Holotype: IFP; isotype: KUN.

C. lorentzii (Fleischer) Schultze-Motel, Willdenowia 3: 407. 1963.
Basionym: *Pilopogon lorentzii* Fleischer, 1911.
Note: redundant combination in Frahm, Lindbergia 9: 115. 1983.

C. madecassus Bescherelle, Ann. Sci. Nat. Bot., ser. 6, 9: 321. 1880.
Other use: *Campylopus arctocarpus* subsp. *madecassus* (Bescherelle) Frahm, 1985.

C. malagensis Herzog, Biblioth. Bot. 87: 23. pl. 1: f. 6. 1916.
Other use: *Campylopodiella malagensis* (Herzog) Frahm, 1984.

**C. mangenotii* Bizot & Kilbertus in Bizot, Rev. Bryol. Lichénol. 40: 113. pl. 7. 1974.
*invalid, single element not cited as holotype (Article 37.3).
Type: Reunion. Piton des Neiges, *Cadet 162*. Herbaria: "herbiers Bizot et Kilbertus."

C. masafuerae Frahm, Bryoph. Biblioth. 5: 83. 1975.
Replaced name: *Campylopus laxiretis* E. B. Bartram, 1957.
Blocking name: *Campylopus laxiretis* Herzog, 1910.

C. metzlerelloides (Potier de la Varde & Thériot) Bizot in Bizot & Pócs, Acta Bot. Acad. Sci. Hung. 25: 246. 1979 [1980].
Basionym: *Bryohumbertia metzlerelloides* Potier de la Varde & Thériot, 1939.

C. muelleri Juratzka in Rabenhorst, Bryoth. Eur. 12: 578. 1862.
Other use: *Campylopus fragilis* fo. *muelleri* (Juratzka in Rabenhorst) Smirnova, 1969 [1970].

Campylopus, continued.

**C. nitidus* Thériot in Felippone, Rev. Bryol., n.s. 2: 212. f. 3. 1929 [1930].
*illegitimate, later homonym (Article 64.1).
Earlier name: *Campylopus nitidus* Dozy & Molkenboer, 1847.
Correct name: *Campylopus uruguensis* Frahm, 1975.

C. paludosus Frahm & Bartlett, J. Bryol. 12: 376. f. 8. 1983.
Type: New Zealand. South Island: near Jacksons, *Bartlett 63*. Holotype: WELL; isotypes: BM, NICH, NY, herb. Bartlett, herb. Frahm.

C. paramoensis F. D. Bowers, Bryologist 77: 152. 1974.
Replaced name: *Campylopus atratus* E. B. Bartram, 1928.
Blocking name: *Campylopus atratus* Brotherus, 1901.

C. pascuanus Frahm, Bryoph. Biblioth. 5: 91. 1975.
Replaced name: *Campylopus saxicola* Brotherus in Skottsberg, 1924.
Blocking name: *Campylopus saxicola* (Weber & D. Mohr) Bridel, 1819 [1818].

C. pauper (Hampe) Mitten, 1869.

C. pauper var. *lamprodictyon* (Hampe) Frahm, Bryol. Beitr. 7: 96. 1987.
Basionym: *Dicranum lamprodictyon* Hampe, 1866.

C. perauriculatus Brotherus, Oefers. Förh. Finska Vetensk.-Soc. 42: 93. 1899 [1900].
Other use: *Campylopus robillardei* var. *perauriculatus* (Brotherus) Frahm, 1987.

C. peruvianus R. S. Williams, Bull. Torrey Bot. Club 42: 393. pl. 21: f. 1-6. 1915.
Other use: *Pilopogon peruvianus* (R. S. Williams) Frahm, 1983.

C. pilefer Bridel, 1819 [1818].

C. pilifer fo. *angustifolius* (Warnstorf) Frahm, Rev. Bryol. Lichénol. 45: 158. 1979.
Basionym: *Campylopus angustifolius* Warnstorf, 1915.

C. pilifer subsp. *galapagensis* (Frahm & Sipman) Frahm, Bryol. Beitr. 7: 88. 1987.
Basionym: *Campylopus galapagensis* Frahm & Sipman, 1978.

C. pilifer var. *lamellatus* (Montagne) Gradstein & Sipman, Bryologist 81: 119. 1978.
Basionym: *Campylopus lamellatus* Montagne, 1838.

C. pittieri R. S. Williams, 1907 [1908].

C. pittieri var. *congestus* (Thériot) Florschütz-de Waard & Florschütz, Bryologist 82: 223. 1979, "*congestum*."
Basionym: *Paraleucobryum densifolium* var. *congestum* Thériot, 1939.

C. pittieri var. *latilimbatus* (Thériot) Florschütz-de Waard & Florschütz, Bryologist 82: 223. 1979.
Basionym: *Paraleucobryum densifolium* var. *latilimbatum* Thériot, 1939.

C. praealtus (C. Müller) Paris, 1900.

C. praealtus var. *damazii* (Brotherus) Frahm, Rev. Bryol. Lichénol. 45: 159. 1979.
Basionym: *Campylopus damazii* Brotherus, 1927.

C. praetermissus Frahm, Bryoph. Biblioth. 31: 152. f. 76. 1985.
Type: Gabon. Mocambo, *Le Testu 4753*. Holotype: PC.

Campylopus, continued.

**C. pseudojulaceus* Sim, Trans. Roy. Soc. South Africa 15: 169. 1926.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Campylopus pseudojulaceus* C. Müller, 1898.
Correct name: *Campylopus simii* Schelpe, 1979.

C. pyriformis (F. Schultz) Bridel, 1826.

C. pyriformis var. *azoricus* (Mitten in Godman) Corley, J. Bryol. 9: 201. 1976.
Basionym: *Campylopus azoricus* Mitten in Godman, 1870.

C. pyriformis var. *fallaciosus* (Thériot) Corley, J. Bryol. 9: 201. 1976.
Basionym: *Campylopus torfaceus* var. *fallaciosus* Thériot, 1901.

C. pyriformis var. *hamatus* Frahm & Bartlett, J. Bryol. 12: 378. f. 10. 1983.
Type: New Zealand. South Island: Denniston Plateau near Westfort, 42° S, in bog 2700 feet, *Bartlett 59*. Holotype: WELL; isotypes: herb. Bartlett, herb. Frahm.

C. pyriformis var. *longisetus* Tosco, Webbia 28: 281. 1973, "*longiseta*."
Type: Italy. Gran Paradiso, Parco Nazionale, Canavese, salendo da Pont Canavese a Mompont, ca. 800 m, *Ariello & Tosco*, 1969. Holotype: herb. Tosco.

C. quezelii Desplanques & Hébrard, Rivièra Sci. 1972: 61. pl. 1. 1972, "*quezeli*."
Type: Crozet Islands. Possession Island: Port Alfred, *T.A.A.F. s.n.* Holotype: PC. Paratypes cited.

C. recurvifolius Dusén, Ark. Bot. 4(13): 9. pl. 5: f. 3-7. 1905.
Other use: *Campylopus aureonitens* subsp. *recurvifolius* (Dusén) Frahm, 1987.

C. ridleyi (Dixon) Manuel, Fed. Mus. J. 26: 161. 1981.
Basionym: *Thysanomitrion ridleyi* Dixon, 1924.

C. robillardei Bescherelle, 1878.

C. robillardei var. *perauriculatus* (Brotherus) Frahm, Bryol. Beitr. 7: 89. 1987.
Basionym: *Campylopus perauriculatus* Brotherus, 1899 [1900].

C. savannarum (C. Müller) Mitten, 1869.

C. savannarum subsp. *bartlettii* (E. B. Bartram) Florschütz, Fl. Suriname 6(1): 79. 1964.
Basionym: *Campylopus bartlettii* E. B. Bartram, 1932.

**C. saxicola* Brotherus in Skottsberg, Nat. Hist. Juan Fernández 2(3): 243. pl. 22: f. 2a-h. 1924.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Campylopus saxicola* (Weber & D. Mohr) Bridel, 1819 [1818].
Correct name: *Campylopus pascuanus* Frahm, 1975.

C. schiffneri (Brotherus) Frahm, J. Bryol. 8: 260. 1974.
Basionym: *Thysanomitrion schiffneri* Brotherus, 1927.

C. serrifolius (Brotherus & Paris) Frahm, Lindbergia 9: 115. 1983.
Basionym: *Pilopogon serrifolius* Brotherus & Paris, 1911.

C. sharpii Frahm, D. G. Horton & Vitt in Frahm, Bryologist 82: 623. f. 1-7. 1979.
Type: Mexico. Oaxaca: 103.3 km N on Highway 175 from junction with Highway 190 near San Pedro, Yolox, 2745 m, *Vitt 17715*. Holotype: ALTA; isotypes: TENN, herb. Frahm, herb. Horton.

Campylopus, continued.

C. simii Schelpe, Mem. Bot. Surv. South Africa 43: 5. 1979.
Replaced name: *Campylopus pseudojulaceus* Sim, 1926.
Blocking name: *Campylopus pseudojulaceus* C. Müller, 1898.

C. steyermarkii E. B. Bartram, Bol. Soc. Venez. Ci. Nat. 25: 35. 1963.
Type: Venezuela. Cabeceras de Rio Chicanan, 80 km SW El Dorado, 600 m, *Steyermark 89600*. Holotype: herb. Bartram; isotype: VEN.

C. strictifolius Brotherus, Acta Soc. Sci. Fenn. 19(5): 8. 1891.
Other use: *Campylopus arctocarpus* fo. *strictifolius* (Brotherus) Frahm, 1979.

C. strictulus (C. Müller) H. Robinson, Bryologist 70: 20. 1967.
Basionym: *Dicranum strictulum* C. Müller, 1874.

C. subchlorophyllosus C. Müller in Rabenhorst, Bryoth. Eur. 28: 1362. 1884.
Other use: *Sphaerothecium subchlorophyllosum* (C. Müller in Rabenhorst) Frahm, 1986.

C. subcomosus Dixon, J. Linn. Soc., Bot. 45: 498. 1922.
Other use: *Bryohumbertia subcomosa* (Dixon) Frahm, 1989.

C. subcuspidatus (Hampe) Jaeger, 1872.

C. subcuspidatus var. *damazii* (Brotherus) Frahm, Bryol. Beitr. 7: 90. 1987.
Basionym: *Campylopus damazii* Brotherus, 1927.

C. subgracilis Renauld & Cardot ex Gangulee, Bull. Bot. Soc. Bengal 14: 26. f. 43. 1960 [1963].

C. suboblongus Herzog, Beih. Bot. Centralbl. 61B: 585. f. 16: d-f. 1942.
Other use: *Campylopus chrismarii* var. *suboblongus* (Herzog) Frahm, 1980.

C. subperichaetialis Bizot & Kilbertus ex Pócs, Fol. Hist. Nat. Mus. Matr. 4: 28. 1976-77 [1977].
Type: Tanzania. Morogoro district, Bondwa Peak, *Pócs & Gibbon 6052/AU*. Holotype: EGR.
Note: invalid, holotype not indicated (Article 37.1), in Rev. Bryol. Lichénol 40: 113. pl. 6. 1974.

C. surinamensis C. Müller, 1848.

C. surinamensis var. *angustiretis* (Austin) Frahm, Bryologist 83: 582. 1980 [1981].
Basionym: *Dicranum angustirete* Austin, 1879.

C. tolucensis E. B. Bartram, Rev. Bryol. Lichénol. 15: 21. 1945.
Other use: *Campylopus chrismarii* var. *tolucensis* (E. B. Bartram) Frahm, 1977.

C. torfaceus Bruch & W. P. Schimper in B.S.G., 1847.

C. torfaceus var. *fallaciosus* Thériot, Bull. Acad. Int. Géogr. Bot. 10: 62. pl. 4: f. 5-9. 1901.
Other use: *Campylopus pyriformis* var. *fallaciosus* (Thériot) Corley, 1976.

C. torfaceus var. *submersus* J. B. Jack ex Limpricht, Laubm. Deutschl. 1: 389. 1887.
Other use: *Campylopus fragilis* fo. *submersus* (J. B. Jack ex Limpricht) Margadant, 1972.

Campylopus, continued.
C. tortilipilus Frahm, Cryptog. Bryol. Lichénol. 2: 446. f. 3. 1981.
Type: Brazil. Piaui: Municipio de Corrente, 10°33' S 45°11' W, *Vital 8232*. Holotype: SP; isotype: herb. Frahm.
C. trachyblepharon (C. Müller) Mitten, 1869.
C. trachyblepharon subsp. *comatus* (Renauld & Cardot in Renauld) Frahm, Bryoph. Biblioth. 31: 187. 1985.
Basionym: *Campylopus comatus* Renauld & Cardot in Renauld, 1891.
C. trichophylloides (Arnott) Paris, 1894.
C. trichophylloides Thériot, Repert. Spec. Nov. Regni Veg. 45: 44. 1938.
Note: not in Index Muscorum.
C. umbellatus (Arnott) Paris, 1894.
C. umbellatus var. *pteroneuron* (C. Müller) Frahm, Nova Hedwigia 39: 602. 1984 [14 Jan 1985].
Basionym: *Dicranum pterotoneuron* C. Müller, 1869.
Note: redundant combination in J. Bryol. 13: 186. 1984 [15 Jan 1985].
C. uruguensis Frahm, Bryoph. Biblioth. 5: 127. 1975.
Replaced name: *Campylopus nitidus* Thériot in Felippone, 1929 [1930].
Blocking name: *Campylopus nitidus* Dozy & Molkenboer, 1847.
C. valerioi B. H. Allen, Trop. Bryol. 1: 68. 1989.
Replaced name: *Dicranum costaricense* E. B. Bartram, 1929.
Blocking name: *Campylopus costaricensis* E. B. Bartram, 1928.
C. validinervis (Dixon) B. C. Tan, Willdenowia 18: 510. 1989.
Basionym: *Dicranoloma validinerve* Dixon, 1941.
C. wilhelmensis E. B. Bartram, Contr. U.S. Natl. Herb. 37: 45. 1965.
Type: Papua New Guinea. Mt. Wilhelm, 2740 m, *Brass 30237*. Holotype: US.
C. wurdackii H. Robinson, Bryologist 70: 319. f. 8-11. 1967.
Type: Peru. Amazonas: Chachapoyas, along Rio Bentilla 1-2 km W of Molinopampa, 2300-2400 m, *Wurdack 1524*. Holotype: US.
C. yungarum Herzog, Beih. Bot. Centralbl. 26(2): 51. 1910.
Other use: *Campylopus densicoma* var. *yungarum* (Herzog) Frahm, 1984.

Campylostelium Bruch & W. P. Schimper in B.S.G., 1846.
C. venezuelanum Dozy & Molkenboer, Prodr. Fl. Bryol. Surinam. 38. pl. 5. 1854.
Other use: *Dicranella venezuelana* (Dozy & Molkenboer) Buck, 1979.

Campylotrichum Sikora in Weitenweber, 1836.
C. acuminatum Sikora in Weitenweber, Beitr. Gesammten Natur- Heilwiss. 1(2): 283. 1836.
Note: not in Index Muscorum.

Canalohypopterygium W. Frey & Schaepe, J. Hattori Bot. Lab. 66: 269. 1989.
Type: *Hypopterygium commutatum* C. Müller, *C. commutatum* (C. Müller) W. Frey & Schaepe, holotype.
Original placement: Hypopterygiaceae subfam. Hypopterygioideae.

Canalohypopterygium, continued.
C. commutatum (C. Müller) W. Frey & Schaepe, J. Hattori Bot. Lab. 66: 269. 1989.
Basionym: *Hypopterygium commutatum* C. Müller, 1850.

Cardotiella Vitt, J. Hattori Bot. Lab. 49: 101. 1981.
Type: *Coleochaetium subappendiculatum* Brotherus, *C. subappendiculata* (Brotherus) Vitt, holotype.
Original placement: Orthotrichaceae.
C. appendiculata (Renauld & Cardot) Vitt, J. Hattori Bot. Lab. 49: 101. 1981.
Basionym: *Coleochaetium appendiculatum* Renauld & Cardot, 1894 [1895].
C. quinquefaria (Hornschuch in C. Martius) Vitt, J. Hattori Bot. Lab. 49: 102. 1981.
Basionym: *Macromitrium quinquefarium* Hornschuch in C. Martius, 1840.
C. renauldii (Brotherus in Voeltzkow) Vitt, J. Hattori Bot. Lab. 49: 103. 1981.
Basionym: *Coleochaetium renauldii* Brotherus in Voeltzkow, 1908.
C. schlotheimiaeformis (Paris) Vitt, J. Hattori Bot. Lab. 49: 103. 1981.
Basionym: *Macromitrium schlotheimiaeforme* Paris, 1900.
C. secunda (C. Müller) Vitt, J. Hattori Bot. Lab. 49: 105. 1981.
Basionym: *Macromitrium secundum* C. Müller, 1856.
C. subappendiculata (Brotherus in Voeltzkow) Vitt, J. Hattori Bot. Lab. 49: 105. 1981.
Basionym: *Coleochaetium subappendiculatum* Brotherus in Voeltzkow, 1908.

Caribaeohypnum Ando & Higuchi, Cryptog. Bryol. Lichénol. 5: 9. 1984.
Type: *Ectropothecium polypterum* Mitten, *C. polypterum* (Mitten) Ando & Higuchi, holotype.
Original placement: Hypnaceae.
C. polypterum (Mitten) Ando & Higuchi, Cryptog. Bryol. Lichénol. 5: 9. 1984.
Basionym: *Ectropothecium polypterum* Mitten, 1869.

Catagonium C. Müller ex Brotherus in Engler & Prantl, 1908.
C. emarginatum Lin Shan-Hsiung, J. Hattori Bot. Lab. 55: 299. 1984.
Type: Bolivia. *Crosby 13566*. Holotype: MO.
Note: invalid, no Latin description (Article 36.1), in J. Taiwan Mus. 36(2): 37. 1983.
C. myurum Cardot & Thériot, Rev. Bryol., n.s. 2: 165. 1930.
Other use: *Catagonium nitens* var. *myurum* (Cardot & Thériot) Lin Shan-Hsiung, 1989.
C. nitens (Bridel) Cardot in Grandidier, 1915.
C. nitens subsp. *maritimum* (W. J. Hooker) Lin Shan-Hsiung, J. Hattori Bot. Lab. 55: 298. 1984.
Basionym: *Leskea maritima* W. J. Hooker, 1819.
Note: invalid, basionym not cited (Article 33.2), in J. Taiwan Mus. 36(2): 37. 1983.

Catagonium, continued.

C. nitens var. *myurum* (Cardot & Thériot) Lin Shan-Hsiung, Yushania 6: 19. 1989.

Basionym: *Catagonium myurum* Cardot & Thériot, 1930.

Catharinea Ehrhart ex Weber & D. Mohr, 1803, rejected name.

C. cavallii Negri, Ann. Bot. (Rome) 7: 168. 1908.

Other use: *Oligotrichum cavallii* (Negri) G. L. Smith, 1971.

C. elamellosa Herzog, Biblioth. Bot. 87: 102. f. 38: a-g. 1916.

Other use: *Steereobryon elamellosum* (Herzog) Menzel in Schultze-Motel & Menzel, 1987.

C. gracilis C. Müller, Nuovo Giorn. Bot. Ital., n.s., 3: 92. 1896.

Other use: *Atrichum pallidum* var. *gracile* (C. Müller) Nyholm, 1971.

C. microdendron C. Müller, Hedwigia 36: 339. 1897.

Other use: *Dendroligotrichum dendroides* subsp. *microdendron* (C. Müller) G. L. Smith, 1971, *Dendroligotrichum microdendron* (C. Müller) G. L. Smith, 1969.

C. nigricans C. Müller ex Herzog, Biblioth. Bot. 87: 102. 1916.

Other use: *Atrichum nigricans* (C. Müller ex Herzog) F. J. Hermann, 1976.

C. oerstediana C. Müller, Syn. Musc. Frond. 2: 558. 1851.

Other use: *Atrichum androgynum* var. *oerstedianum* (C. Müller) Nyholm, 1971, *Atrichum undulatum* var. *oerstedianum* (C. Müller) H. Crum, 1971.

C. pseudopolytrichum Raddi, Mem. Mat. Fis. Soc. Ital. Sci. Modena, Pt. Mem. Fis. 18: 343. pl. 4: f. 3. 1821.

Other use: *Polytrichadelphus pseudopolytrichum* (Raddi) G. L. Smith, 1976 [1977].

C. tapes C. Müller in Neumayer, Int. Polarforsch., Deutsch. Exped. 2: 288. 1890.

Other use: *Notoligotrichum tapes* (C. Müller in Neumayer) G. L. Smith, 1971.

C. undulata (Hedwig) Weber & D. Mohr, 1803.

C. undulata var. *thermophila* Hesselbo, Bot. Iceland 4: 498. f. 9. 1918.

Other use: *Atrichum undulatum* fo. *thermophila* (Hesselbo) Nyholm, 1971.

C. yunnanensis Brotherus, Akad. Wiss. Wien Sitzungsber., Math.-Naturwiss. Kl., Abt. 1, 131: 214. 1923.

Other use: *Atrichum undulatum* var. *yunnanense* (Brotherus) Chen Pan-chieh & Wan Thung-ling ex Xu Wen-xuan & Xiong Ruo-li, 1984.

Cephalocladium Lazarenko, Bot. Zhurn. (Kiev) 3: 62. 1946.

Original placement: Sematophyllaceae.

Note: not in Index Muscorum.

C. enerve (Brotherus) A. L. Abramova & I. I. Abramov, Novosti Sist. Niz. Rast. 18: 185. 1981.

Basionym: *Fabronia enervis* Brotherus, 1924.

C. zerovii Lazarenko, Bot. Zhurn. (Kiev) 3: 62. 1946.

Note: not in Index Muscorum.

Ceratodon Bridel, 1826.
C. grossiretis Cardot, 1906.
C. grossiretis var. *validus* Cardot, Bull. Herb. Boissier, sér. 2, 6: 14. 1906.
Other use: *Ceratodon validus* (Cardot) Horikawa & Ando, 1963.
C. kinggeorgicus Kanda, Hikobia 9: 324. f. 3. 1986.
Type: Antarctica. South Shetland Islands: King George Island, Potter Cove, 70 m, *Kanda 120*. Holotype: NIPR.
C. purpureus (Hedwig) Bridel, 1826.
C. purpureus fo. *parvitheca* Pilous, Preslia 41: 131. 1969.
Type: Czechoslovakia. Slovakia: Belanske Tatry, inter Novy et Muranl 730 m, *Pilous s.n.* Holotype: herb. Pilous.
C. validus (Cardot) Horikawa & Ando, Hikobia 3: 278. 1963.
Basionym: *Ceratodon grossiretis* var. *validus* Cardot, 1906.

Chaetomitriopsis Fleischer, 1921.
C. diversifolia Zanten, Nova Guinea, Bot. 10(16): 316. pl. 28: f. 1. 1964.
Type: Indonesia [New Guinea]. Irian Barat: Mt. Antares, Camp 39a, 1500 m, *Zanten 382*. Holotype: L; isotype: GRO.

Chaetomitrium Dozy & Molkenboer, 1846.
C. friedense Norris & T. Koponen, Ann. Bot. Fenn. 22: 375. f. 3. 1985.
Type: Papua New Guinea. West Sepik: Frieda River, Kokomo Creek, 2.5 km NW of Frieda Base Camp, 550 m, *Koponen 35772*. Holotype: H; isotypes: HSC, LAE. Paratype cited.
**C. molliculum* Brotherus & Watts in H. P. Ramsay, Taxon 29: 466. 1980.
*invalid, no Latin description (Article 36.1).
C. sikkimense Brotherus ex Gangulee, Mosses E. India 6: 1501. f. 751. 1977.
Type: India. Sepoyjhora Forest, Kurseong, 5500 feet, *Decoly & Schaul s.n.* (Bryoth. Levier 2399). Holotype: H-Brotherus; isotype: BM.
C. volutum Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 115. 1859.
Other use: *Trichosteleum volutum* (Mitten) Mohamed, 1985.
C. wildei Zanten, Nova Guinea, Bot. 10(16): 315. pl. 27: f. 4. 1964.
Type: Indonesia [New Guinea]. Irian Barat: Sibil-valley, Sangjar, 1500 m, *De Wilde 857b*. Holotype: L; isotype: GRO.

Chaetophora Bridel, 1818 [1819].
C. incurva Hornschuch, Horae Phys. Berol. 65. f. 13. 1820.
Other use: *Thamniopsis incurva* (Hornschuch) Buck, 1987.

Chamberlainia Grout, 1928.
C. sect. *Salebrosa* (Brotherus) H. Robinson, Bryologist 65: 105. 1962 [1963].
Basionym: *Brachythecium* sect. *Salebrosa* Brotherus, 1908.
C. sect. *Velutina* (De Notaris) H. Robinson, Bryologist 65: 106. 1962 [1963].
Basionym: *Brachythecium* sect. *Velutina* De Notaris, 1869.

Chamberlainia, continued.

C. acuminata (Hedwig) Grout, 1928.

C. acuminata var. *filiformis* (Britton) Wijk & Margadant, Taxon 17: 467. 1968.
Basionym: *Hypnum acuminatum* var. *filiforme* Britton, 1894.

C. albicans (Hedwig) H. Robinson, Bryologist 65: 112. 1962 [1963].
Basionym: *Hypnum albicans* Hedwig, 1801.

C. calcarea (Kindberg) H. Robinson, Bryologist 65: 113. 1962 [1963].
Basionym: *Brachythecium calcareum* Kindberg, 1895.

C. campestris (C. Müller) H. Robinson, Bryologist 65: 113. 1962 [1963].
Basionym: *Hypnum rutabulum* var. *campestre* C. Müller, 1851.

C. collina (Schleicher ex C. Müller) H. Robinson, Bryologist 65: 112. 1962 [1963].
Basionym: *Hypnum collinum* Schleicher ex C. Müller, 1851.

C. collina var. *suberythrorrhiza* (Renauld & Cardot) H. Robinson, Bryologist 65: 112. 1962 [1963].
Basionym: *Brachythecium suberythrorrhizon* Renauld & Cardot, 1894.

C. collina var. *utahensis* (T. P. James in S. Watson) H. Robinson, Bryologist 65: 112. 1962 [1963].
Basionym: *Brachythecium utahense* T. P. James in S. Watson, 1871.

C. digastra (C. Müller ex Kindberg in Macoun) H. Robinson, Bryologist 65: 106. 1962 [1963].
Basionym: *Brachythecium digastrum* C. Müller ex Kindberg in Macoun, 1892.

C. erythrorrhiza (W. P. Schimper in B.S.G.) H. Robinson, Bryologist 65: 106. 1962 [1963].
Basionym: *Brachythecium erythrorrhizon* W. P. Schimper in B.S.G., 1853.

C. erythrorrhiza var. *thedenii* (C. J. Hartman) H. Robinson, Bryologist 65: 112. 1962 [1963].
Basionym: *Hypnum thedenii* (B.S.G.) C. J. Hartman, 1854.

C. leibergii (Grout) H. Robinson, Bryologist 65: 113. 1962 [1963].
Basionym: *Brachythecium leibergii* Grout, 1897.

C. oxycladon (Bridel) H. Robinson, Bryologist 65: 105. 1962 [1963], "*oxyclada*."
Basionym: *Hypnum oxycladon* Bridel, 1812.

C. rotaeana (De Notaris) H. Robinson, Bryologist 65: 105. 1962 [1963].
Basionym: *Brachythecium rotaeanum* De Notaris, 1867.

C. salebrosa (G. F. Hoffmann ex Weber & D. Mohr) H. Robinson, Bryologist 65: 105. 1962 [1963].
Basionym: *Hypnum salebrosum* G. F. Hoffmann ex Weber & D. Mohr, 1807.

C. splendens (Austin) H. Robinson, Bryologist 65: 104. 1962 [1963].
Basionym: *Brachythecium splendens* Austin, 1877.

C. stereopoma (Spruce ex Mitten) H. Robinson, Bryologist 65: 105. 1962 [1963].
Basionym: *Hypnum stereopoma* Spruce ex Mitten, 1869.

C. turgida (C. J. Hartman) H. Robinson, Bryologist 65: 113. 1962 [1963].
Basionym: *Hypnum salebrosum* var. *turgidum* C. J. Hartman, 1838.

C. velutina (Hedwig) H. Robinson, Bryologist 65: 113. 1962 [1963].
Basionym: *Hypnum velutinum* Hedwig, 1801.

Cheilothela Lindberg ex Brotherus in Engler & Prantl, 1901.
C. jaegeri Bizot, Rev. Bryol. Lichénol. 42: 847. 1976.
Type: Sierra Leone. Mt. Loma, 1600 m, *Jaeger 8335*. Holotype: herb. Bizot; isotype: herb. Jaeger.
C. longirostris Fleischer, Musci Buitenzorg 1: 302. f. 51. 1904.
Other use: *Strombulidens longirostris* (Fleischer) Buck, 1981.
C. vaginata H. Robinson, Phytologia 23: 390. f. 1-3. 1972.
Type: Venezuela. Merida: a 2 km de la ciudad de Merida, 2500 m, *Faria 1*. Holotype: US; isotype: herb. Griffin.

Chenia Zander, Phytologia 65: 424. 1989.
Type: *Tortula subobliqua* R. S. Williams, *C. subobliqua* (R. S. Williams) Zander, holotype.
Original placement: Pottiaceae.
C. rhizophylla (Sakurai) Zander, Phytologia 65: 425. 1989.
Basionym: *Physcomitrium rhizophyllum* Sakurai, 1938.
C. subobliqua (R. S. Williams) Zander, Phytologia 65: 425. 1989.
Basionym: *Tortula subobliqua* R. S. Williams, 1927.

Chionostomum C. Müller, 1869.
C. baolocense Tixier, Rev. Bryol. Lichénol. 43: 430. f. 13: 3. 1977.
Type: Vietnam. Lam Dong, Bao Loc, *Tixier 310*. Holotype: PC.
C. pinicola Tixier, Rev. Bryol. Lichénol. 43: 430. f. 13: 2. 1977.
Type: Vietnam. Tuyen Duc, Dalat, cite Bellevue, 1400 m, *Tixier 306*. Holotype: PC.

+**Chiuzbaia** Plamada & Givulescu, Rev. Bryol. Lichénol. 45: 421. 1979.
Type: *C. tenella* Plamada & Givulescu, holotype.
Original placement: not indicated by authors.
+*C. tenella* Plamada & Givulescu, Rev. Bryol. Lichénol. 45: 421. pl. 3. 1979.
Type: Romania. Maramures: pag. Chiuzbaia ad 10 km septentrionem versus procul urbe Baia Mare, alt. 830 m, *Givulescu*, 1977 (P. 25402/1978). Holotype: Inst. Geol. Geoph. Bucarestiensis.

Chorisodontium (Mitten) Brotherus, 1924.
C. burrowsii Allison, Trans. Roy. Soc. New Zealand, Bot. 2: 134. f. 1-5. 1963.
Type: New Zealand. South Island: Rough Creek Basin, Arthurs Pass, 4800-5500 feet, *Burrows*, 1960. Holotype: herb. Allison; isotypes: herb. Bartram, herb. Burrows, herb. Persson.
C. falcatum Magill, Fl. S. Africa, Bryophyta, Mosses 1: 154. f. 42: 1-12. 1981 [1982].
Type: South Africa. Cape: Hex River Mts. Roodeberg, *Esterhuysen 20972*. Holotype: BOL; isotypes: H, L, MO, NY, PRE.

Chorisodontium, continued.
C. wallisii (C. Müller) Brotherus, 1924.
C. wallisii var. *speciosum* (J. D. Hooker & Wilson) Frahm, Trop. Bryol. 1: 18. 1989.
Basionym: *Dicranum speciosum* J. D. Hooker & Wilson, 1847.

Chrysocladium Fleischer, 1908.
C. flammeum (Mitten) Fleischer, 1908.
C. flammeum subsp. *ochraceum* (Noguchi) Noguchi, J. Hattori Bot. Lab. 41: 270. 1976.
Basionym: *Barbella ochracea* Noguchi, 1936.
C. flammeum subsp. *rufifolioides* (Brotherus) Noguchi, J. Hattori Bot. Lab. 41: 269. 1976.
Basionym: *Chrysocladium rufifolioides* Brotherus, 1910.
C. flammeum subsp. *tukusiense* (Noguchi) Noguchi, J. Hattori Bot. Lab. 41: 270. 1976.
Basionym: *Pseudobarbella tukusiensis* Noguchi, 1948.
C. rufifolioides Brotherus, Philipp. J. Sci. 5: 153. 1910.
Other use: *Chrysocladium flammeum* subsp. *rufifolioides* (Brotherus) Noguchi, 1976.

Chryso-hypnum Hampe, 1870.
C. cavifolium (Dixon) Ochyra & A. J. Sharp, J. Hattori Bot. Lab. 65: 370. 1988.
Basionym: *Microthamnium cavifolium* Dixon, 1915.
C. demaretii (Potier de la Varde in Demaret & J. Leroy) Higuchi, Hikobia 9: 335. 1986.
Basionym: *Gollania demaretii* Potier de la Varde in Demaret & J. Leroy, 1944.
C. diminutivum (Hampe) Buck, Brittonia 36: 182. 1984.
Basionym: *Hypnum diminutivum* Hampe, 1847.
C. squarrosulum (Cardot) Nishimura & Ando, Bryologist 89: 68. 1986.
Basionym: *Mittenothamnium squarrosulum* Cardot, 1911.

***Chrysohypnum** (Hampe) G. Roth, 1899.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Chryso-hypnum* Hampe, 1870.
**C. calcareum* (Crundwell & Nyholm) Boros in Soó, Magyar Fl. 1: 476. 1964.
*invalid, basionym not cited (Article 33.2).
C. krylovii Podpera, Spisy Prír. Fak Masarykovy Univ. 116: 28. f. 19. 1929, "*krylovi*."
Other use: *Podperaea krylovii* (Podpera) Iwatsuki & Glime, 1984.
**C. radicale* (Palisot de Beauvois) Boros in Soó, Magyar Fl. 1: 477. 1964.
*invalid, basionym not cited (Article 33.2).

Chrysohypnum, continued.
C. sommerfeltii (Myrin) A. Roth, 1899.
C. sommerfeltii fo. *longifolium* Podpera, Spisy Prír. Fak Masarykovy Univ. 5: 38. 1921.
Other use: *Campylium polymorphum* subfo. *longifolium* (Podpera) Pilous, 1963.

Cinclidotus W. J. Hooker & Taylor, 1818.
C. herzogii Paul, Mitt. Thüring. Bot. Ges. 1(2-3): 13. f. 2.4, 3-6. 1955.
Note: not in Index Muscorum.
C. nyholmiae Cetin, J. Bryol. 15: 269. f. 1-2. 1988.
Type: Turkey. Antalya: Koprulu Canyon National Park, Koprulu River, *Cetin 440*. Holotype: ANK; isotypes: BM, S. Paratypes cited.

Cirriphyllum Grout, 1898.
C. alare Dixon, Notes Roy. Bot. Gard. Edinburgh 19: 297. f. 11. 1938.
Other use: *Brachythecium rivulare* var. *alare* (Dixon) Vohra, 1979 [1981].
C. illecebrum (Hedwig) L. F. Koch, 1949.
C. illecebrum fo. *teneriffae* (Cardot & H. Winter in H. Winter) Düll, Cryptog. Bryol. Lichénol. 1: 166. 1980.
Basionym: *Scleropodium illecebrum* var. *teneriffae* Cardot & H. Winter in H. Winter, 1914.
C. piliferum (Hedwig) Grout, 1898.
C. piliferum fo. *filiforme* (A. P. de Candolle) Margadant, Lindbergia 1: 126. 1972.
Basionym: *Hypnum piliferum* var. *filiforme* A. P. de Candolle, 1815.
C. tenuinerve (Lindberg) Wijk & Margadant, 1959.
C. tenuinerve var. *tenuicaule* (Spruce) Nyholm, Ill. Moss Fl. Fennoscandia. II. Musci 776. 1969.
Basionym: *Hypnum tenuicaule* Spruce, 1849.
Note: invalid, basionym not cited (Article 33.2), in Ill. Moss Fl. Fennoscandia. II. Musci 510. 1965.

Claopodium (Lesquereux & T. P. James) Renauld & Cardot, 1893.
C. gracillimum (Cardot & Thériot) Noguchi, J. Hattori Bot. Lab. 27: 33. 1964.
Basionym: *Diaphanodon gracillimus* Cardot & Thériot, 1908.
**C. integrum* Chen Pan-chieh ex Wu Pan-cheng, Lou Jian-shing & Wang Mei-zhi, Gloss. Terms Names Bryoph. 39. 1984.
*invalid, no Latin description (Article 36.1).
C. rugulosifolium Zeng Shu-ying, Acta Bot. Yunnan. 3: 263. f. 1. 1981.
Type: China. Xizang: Dingsye County, 2800 m, *Chen 2064b*. Holotype: KUN.

Clastobryella Fleischer, 1923.
C. capillifolia Dixon, J. Linn. Soc., Bot. 50: 117. pl. 3: f. 35. 1935.
Other use: *Clastobryum capillifolium* (Dixon) Tixier, 1977.

Clastobryella, continued.
C. koningsbergeri (Fleischer) Noguchi, Misc. Bryol. Lichenol. 5: 139. 1971.
Basionym: *Barbella koningsbergeri* Fleischer, 1923.
C. kusatsuensis (Bescherelle) Iwatsuki, J. Hattori Bot. Lab. 26: 73. 1963.
Basionym: *Isopterygium kusatsuense* Bescherelle, 1900.

Clastobryophilum Fleischer, 1923.
C. bogoricum (Bosch & Sande Lacoste) Fleischer, 1923.
C. bogoricum var. *laevibogoricum* (Dixon) Seki in Noguchi, Bull. Natl. Sci. Mus. 16: 302. 1973.
Basionym: *Acroporium laevibogoricum* Dixon, 1935.

Clastobryopsis Fleischer, 1923.
C. muelleri (Dixon) Tixier, Rev. Bryol. Lichénol. 43: 413. 1977.
Basionym: *Aptychella muelleri* Dixon, 1933.

Clastobryum Dozy & Molkenboer, 1846.
C. assimile Brotherus, Rev. Bryol., n.s. 2: 13. 1929.
Other use: *Myurium assimile* (Brotherus) Seki, 1968.
C. capillifolium (Dixon) Tixier, Rev. Bryol. Lichénol. 43: 454. 1977.
Basionym: *Clastobryella capillifolia* Dixon, 1935.
C. ceylonense Brotherus in Herzog, Hedwigia 50: 137. 1910.
Other use: *Gammiella ceylonensis* (Brotherus in Herzog) B. C. Tan & Buck, 1989.
C. cuculligerum (Sande Lacoste) Tixier, J. Hattori Bot. Lab. 32: 28. 1969.
Basionym: *Hypnum cuculligerum* Sande Lacoste, 1870.
C. glomeratopropaguliferum Toyama, Acta Phytotax. Geobot. 4: 214. f. 2. 1935.
Other use: *Aptychella glomeratopropagulifera* (Toyama) Seki, 1968.
C. igorotum Tixier, J. Hattori Bot. Lab. 32: 28. f. 5. 1969.
Type: Philippines [Luzon]. Mt. Polis, *Tixier 1734*. Holotype: PC.
C. katoi Brotherus, Oefers. Förh. Finska Vetensk.-Soc. 62A(9): 26. 1921.
Other use: *Palisadula katoi* (Brotherus) Iwatsuki, 1979, *Myurium katoi* (Brotherus) Seki, 1968.
C. merrillii Brotherus, Philipp. J. Sci. 8: 81. 1913.
Other use: *Gammiella merrillii* (Brotherus) Tixier, 1977.
C. novoguinense (Noguchi) Tixier, Rev. Bryol. Lichénol. 43: 456. 1977, "*novoguinensis*."
Basionym: *Schraderella novoguinensis* Noguchi, 1953.
C. panchoi Tixier, J. Hattori Bot. Lab. 32: 32. f. 7. 1969.
Type: Philippines [Luzon]. Mt. Banahao, *Pancho 3337*. Holotype: PC.
C. pungens (C. Müller) Tixier, Rev. Bryol. Lichénol. 43: 453. 1977.
Basionym: *Schraderella pungens* C. Müller, 1879.
C. ruficaule (Thwaites & Mitten) Tixier, Rev. Bryol. Lichénol. 43: 451. 1977.
Basionym: *Sematophyllum ruficaule* Thwaites & Mitten, 1873.
C. rutilans Tixier, J. Hattori Bot. Lab. 32: 32. f. 6. 1969.
Type: Philippines [Luzon]. Mt. Polis, *Tixier 1733*. Holotype: PC.

Clastobryum, continued.
C. scalare (C. Müller) Tixier, Rev. Bryol. Lichénol. 43: 457. 1977.
Basionym: *Hypnum scalare* C. Müller, 1851.
C. sinense Dixon, Rev. Bryol., n.s. 1: 185. f. 4. 1928.
Other use: *Entodon sinense* (Dixon) Lazarenko, 1945.

Cnestrum I. Hagen, 1915.
C. glaucescens (Lindberg & H. Arnell) Holmen ex Mogensen & Steere, Lindbergia 5: 211. 1979.
Basionym: *Oncophorus glaucescens* Lindberg & H. Arnell, 1890.

***Codonoblepharum** Dozy & Molkenboer, 1846.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Codonoblepharon* Schwägrichen, 1823 [1824].
C. subfasciculatum Hampe, Linnaea 40: 303. 1876.
Other use: *Mitthyridium subfasciculatum* (Hampe) H. Robinson, 1975.
C. subluteum C. Müller, J. Mus. Godeffroy 3(6): 67. 1874.
Other use: *Mitthyridium subluteum* (C. Müller) Nowak, 1980.
C. undulatum Dozy & Molkenboer, Ann. Sci. Nat. Bot., ser. 3, 2: 301. 1844.
Other use: *Mitthyridium undulatum* (Dozy & Molkenboer) H. Robinson, 1975.

***Coleochaetium** (Bescherelle) Renauld & Cardot, 1895.
*illegitimate, type of earlier name included (Article 63.1).
Correct name: *Leiomitrium* Mitten, 1879.
C. appendiculatum Renauld & Cardot, Bull. Soc. Roy. Bot. Belgique 33(2): 120. 1894 [1895].
Other use: *Cardotiella appendiculata* (Renauld & Cardot) Vitt, 1981.
C. renauldii Brotherus in Voeltzkow, Reise Ostafr., Syst. Arbeit. 3: 56. pl. 8: f. 6. 1908.
Other use: *Cardotiella renauldii* (Brotherus in Voeltzkow) Vitt, 1981.
C. subappendiculatum Brotherus in Voeltzkow, Reise Ostafr., Syst. Arbeit. 3: 56. pl. 7: f. 5. 1908.
Other use: *Cardotiella subappendiculata* (Brotherus in Voeltzkow) Vitt, 1981.

Conardia H. Robinson, Phytologia 33: 294. 1976.
Type: *Hypnum compactum* C. Müller, *C. compacta* (C. Müller) H. Robinson, holotype.
Other use: *Amblystegium* subgen. *Conardia* (H. Robinson) A. J. E. Smith, 1981 [1982].
Original placement: Amblystegiaceae.
C. compacta (C. Müller) H. Robinson, Phytologia 33: 295. 1976.
Basionym: *Hypnum compactum* C. Müller, 1851.

***Conomitrium** Montagne, 1837.
*illegitimate, type of earlier name included (Article 63.1).
Correct name: *Octodiceras* Bridel, 1806.

Conomitrium, continued.

C. sect. *Sarawakia* C. Müller, Gen. Musc. Frond. 72. 1900.
Other use: *Fissidens* subgen. *Sarawakia* (C. Müller) Iwatsuki & H. Hara, 1985.

C. polycarpum Bescherelle, J. Bot. (Morot) 5: 252. 1891.
Other use: *Fissidens guarani* Buck, 1985.

C. puiggarii Geheeb & Hampe, Vidensk. Meddel. Dansk Naturhist. Foren. Kjøbenhavn, ser. 4, 1: 161. 1879.
Other use: *Fissidens prionodes* fo. *puiggarii* (Geheeb & Hampe) Florschütz, 1964.

Coscinodon Sprengel, 1804.

C. arctolimnius (Steere) Steere, J. Hattori Bot. Lab. 42: 446. 1977, "*arctolimnia*."
Basionym: *Grimmia arctolimnia* Steere, 1974.

C. arsenei Thériot, Smithsonian Misc. Collect. 81(1): 4. f. 2. 1928.
Other use: *Grimmia churchilliana* H. Crum, 1986.

C. bolivianus Brotherus in Herzog, Biblioth. Bot. 87: 52. 1916.
Other use: *Grimmia boliviana* (Brotherus in Herzog) F. J. Hermann, 1976.

C. cribrosus (Hedwig) Spruce, 1849.

C. cribrosus fo. *laevidens* Tosco, Webbia 28: 286. 1973.
Type: Italy. Gran Paradiso, Parco Nazionale, Val di Cogne, Cogne, dirupi di Sylvenoire, *Tosco*, 1954. Holotype: herb. Tosco.

C. cribrosus var. *plesivecensis* Pilous, Preslia 41: 134. f. 5: 4. 1969.
Type: Czechoslovakia. Bohemia: Brdy, mons. Plesivec prope Jince, 850 m, *Pilous s.n.* Holotype: herb. Pilous.

Coscinodontella R. S. Williams, 1927.

C. bryanii R. S. Williams, Field Mus. Nat. Hist., Bot. Ser. 4(5): 129. pl. 5. 1927, "*bryani*."
Other use: *Indusiella bryanii* (R. S. Williams) Churchill in Funk & D. R. Brooks, 1981.

Crassicosta H. Crum & A. J. Sharp, Bryologist 87: 150. 1984.
Type: *C. hermannii* H. Crum & A. J. Sharp, holotype.
Original placement: Amblystegiaceae.

C. hermannii H. Crum & A. J. Sharp, Bryologist 87: 150. f. 1-5. 1984.
Type: Mexico. Nuevo Leon: Sierra Madre Oriental, ca. 9 miles (14.5 km) NW or Monterrey, 4900 feet (1500 m), *Hermann 26063*. Holotype: MICH; isotypes: TENN, NY, MEXU.

Cratoneurella H. Robinson, Bryologist 65: 140. 1962 [1963].
Type: *Brachythecium uncinifolium* Brotherus & Paris, *C. uncinifolia* (Brotherus & Paris) H. Robinson.
Original placement: Brachytheciaceae.

Cratoneurella, continued.

C. uncinifolia (Brotherus & Paris) H. Robinson, Bryologist 65: 142. 1962 [1963].
Basionym: *Brachythecium uncinifolium* Brotherus & Paris, 1904.

Cratoneuron (Sullivant in A. Gray) Spruce, 1867.

C. arcticum Steere, Bull. Natl. Mus. Canada 164: 97. f. 1-12. 1959.
Other use: *Cratoneuron filicinum* var. *arcticum* (Steere) Brassard, 1976 [1977].

C. commutatovirescens Amann, Fl. Mouss. Suisse 2: 339. 1918.
Other use: *Palustriella commutata* var. *commutatovirescens* (Amann) Ochyra, 1989.

C. commutatum (Hedwig) G. Roth, 1899.

**C. commutatum* fo. *falcatum* (Bridel) Nyholm, Ill. Moss Fl. Fennoscandia. II. Musci 420. 1965.
*invalid, basionym not cited (Article 33.2).

C. commutatum fo. *flagellaceum* Grom, Acta Bot. Croat. 26-27: 250. 1967-68 [1968].
Type: Yugoslavia. Ad montem Mangart in Alpibus Julicis, 2100 m, *Wraber 555*. Holotype: herb. Grom.

**C. commutatum* fo. *fluctuans* (W. P. Schimper in B.S.G.) Nyholm, Ill. Moss Fl. Fennoscandia. II. Musci 420. 1965.
*invalid, basionym not cited (Article 33.2), not (Schimper in B.S.G.) Moenkemeyer (1914).

C. commutatum var. *irroratum* Mikutowicz, Bryoth. Balt. 187. 1913.
Other use: *Palustriella commutata* var. *irrorata* (Mikutowicz) Ochyra, 1989.

C. commutatum var. *pseudodecipiens* Amann, Fl. Mouss. Suisse 2: 340. 1918.
Other use: *Palustriella commutata* var. *pseudodecipiens* (Amann) Ochyra, 1989.

**C. commutatum* fo. *sulcatum* (W. P. Schimper) Nyholm, Ill. Moss Fl. Fennoscandia. II. Musci 420. 1965.
*invalid, basionym not cited (Article 33.2).

C. commutatum fo. *sulcatum* Tosco, Webbia 28: 298. 1973.
Type: Italy. Gran Paradiso, Parco Nazionale, Valle di Cogne, da Nomenon a Poignon, 1650 m, *Stefenell S.*, 1972. Holotype: herb. Tosco.

C. falcatum (Bridel) G. Roth, 1899.

C. falcatum var. *williamsii* (Grout) Flowers, Bryologist 76: 288. 1973.
Basionym: *Cratoneuron williamsii* Grout, 1934.

C. filicinum (Hedwig) Spruce, 1867.

C. filicinum var. *arcticum* (Steere) Brassard, Bryologist 79: 483. 1976 [1977].
Basionym: *Cratoneuron arcticum* Steere, 1959.

C. filicinum var. *atrovirens* (Bridel) Ochyra, J. Hattori Bot. Lab. 67: 210. 1989.
Basionym: *Hypnum vallis-clausae* var. *atrovirens* Bridel, 1827.

C. filicinum fo. *majus* Tosco, Webbia 28: 298. 1973.
Type: Italy. Gran Paradiso, Parco Nazionale, Piani del Nivolet, Piani bassi, lungo un rigagnolo presso la Dora del Nivolet, *Tosco*, 1970. Holotype: herb. Tosco.

Cratoneuron, continued.
C. filicinum var. *subsimplex* (Renauld in Husnot) Wijk & Margadant, Taxon 14: 196. 1965.
Basionym: *Amblystegium filicinum* var. *subsimplex* Renauld in Husnot, 1894.
C. filicinum var. *tenerrimum* Warnstorf, Hedwigia 57: 122. 1915.
Other use: *Cratoneuron tenerrimum* (Warnstorf) Kanda, 1975 [1976].
C. oedogonium C. Müller, Nuovo Giorn. Bot. Ital., n.s., 4: 162. 1897.
Other use: *Kindbergia oedogonium* (C. Müller) Ochyra in Schultze-Motel & Menzel, 1987.
C. ptychodioides G. Roth, Hedwigia 49: 226. pl. 8: f. 12. 1910.
Other use: *Palustriella commutata* var. *ptychodioides* (G. Roth) Ochyra, 1989.
C. sulcatoirrigatum Meylan, Rev. Bryol., n.s. 3: 186. 1931.
Other use: *Palustriella commutata* var. *sulcatoirrigata* (Meylan) Ochyra, 1989.
C. tenerrimum (Warnstorf) Kanda, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 15: 236. 1975 [1976].
Basionym: *Cratoneuron filicinum* var. *tenerrimum* Warnstorf, 1915.
C. williamsii Grout, Moss Fl. N. Amer. 3: 267. 1934.
Replaced name: *Cratoneuron papillosum* Grout, 1931.
Blocking name: *Cratoneuron papillosum* Warnstorf, 1915.
Other use: *Cratoneuron falcatum* var. *williamsii* (Grout) Flowers, 1973.

Cribrodontium Herzog, 1916.
C. werneri Herzog, Hedwigia 57: 242. 1916.
Other use: *Entodon werneri* (Herzog) Buck, 1980.

Crosbya Vitt, Canad. J. Bot. 55: 2080. 1977.
Replaced name: *Bellia* Brotherus in Engler & Prantl, 1907.
Blocking name: *Bellia* Bubani, 1899.
C. nervosa (J. D. Hooker & Wilson) Vitt, Canad. J. Bot. 55: 2081. 1977.
Basionym: *Hookeria nervosa* J. D. Hooker & Wilson, 1844.
C. straminea (Mitten ex Beckett) Vitt, Canad. J. Bot. 55: 2082. 1977.
Basionym: *Daltonia straminea* Mitten ex Beckett, 1893 [1894].

Crossidium Juratzka, 1882, conserved name.
C. aberrans Holzinger & E. B. Bartram, 1924.
C. aberrans fo. *epilosum* Flowers, Bryologist 76: 289. 1973.
Type: U.S.A. Utah: Uintah Co., Green River, 1 mile below Split Mt., 4820 feet, *Flowers 8897*. Holotype: UT.
C. apiculatum Magill, Fl. S. Africa, Bryophyta, Mosses 1: 195. f. 54: 1-10. 1981 [1982].
Type: South Africa. Cape: Knersvlakte, near Kobee, 6 km NE of Vanrhynsdorp, along road to Niewoudtville, *Magill & Schelpe 3877*. Holotype: PRE; isotypes: BOL, H, MEXU, MO, NY.

Crossidium, continued.

C. asirense W. Frey & Kürschner, J. Bryol. 13: 25. f. 2-3. pl. 1. 1984.
Type: Saudi Arabia. Asir Mountains, near Biljurshi, 1750 m, *Frey & Kürschner 81-572*. Holotype: B; isotypes: herb. Frey, herb. Kürschner.

C. crassinerve (De Notaris) Juratzka, 1882.

C. crassinerve var. *laevipilum* (Thériot & Trabut) Delgadillo M., Bryologist 78: 275. 1975.
Basionym: *Crossidium laevipilum* Thériot & Trabut, 1931.

C. davidai Catcheside, Mosses S. Australia 152. f. 72. pl. 7: c. 1980.
Type: Australia. South Australia: Gairdner division, 95 km S of Woomera by Port Augusta Road, *Catcheside*, 1971. Holotype: herb. Catcheside.

C. deserti W. Frey & Kürschner, Nova Hedwigia 46: 87. 1988.
Replaced name: *Crossidium desertorum* W. Frey & Kürschner, 1987.
Blocking name: *Crossidium desertorum* Holzinger & E. B. Bartram, 1923.

**C. desertorum* W. Frey & Kürschner, Nova Hedwigia 45: 132. f. 8. pl. 1: 5-6, pl. 2: 5-6. 1987.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Crossidium desertorum* Holzinger & E. B. Bartram, 1923.
Correct name: *Crossidium deserti* W. Frey & Kürschner, 1988.
Type: Saudi Arabia. Thumama, 70 km NNE of ar-Riyad (Arumah Plateau), 660 m, *Kürschner 1-3931* (84-500). Holotype: B; isotypes: E, herb. Frey, herb. Kürschner. Paratypes cited.

C. elatum R. S. Williams, Field Mus. Nat. Hist., Bot. Ser. 4(5): 128. pl. 3. 1927.
Other use: *Pseudocrossidium elatum* (R. S. Williams) Delgadillo M., 1975.

C. laevipilum Thériot & Trabut, Bull. Soc. Hist. Nat. Afrique N. 22: 161. f. 3. 1931.
Other use: *Crossidium crassinerve* var. *laevipilum* (Thériot & Trabut) Delgadillo M., 1975.

C. laxefilamentosum W. Frey & Kürschner, Nova Hedwigia 45: 130. f. 7. pl. 1: 3-4, pl. 2: 3-4. 1987.
Type: Saudi Arabia. Thumama, 70 km NNE ar-Riyad (Arumah Plateau) 630 m, *Frey 1-3932* (85-247a). Holotype: B; isotypes: E, herb. Frey, herb. Kurschner. Paratypes cited.

C. spiralifolium Magill, Fl. S. Africa, Bryophyta, Mosses 1: 197. f. 54: 11-17. 1981 [1982].
Type: South Africa. Cape: Prieskapoort, ca. 14 km from Prieska on road to Vosburg, *Smook & Harding 705*. Holotype: PRE; isotypes: H, MEXU, MO, NY.

Crossomitrium C. Müller, 1874.

C. calomicron (Brotherus in Urban) W. H. Welch, Bryologist 74: 89. 1971.
Basionym: *Lepidopilum calomicron* Brotherus in Urban, 1903.

Crumia Schofield, Canad. J. Bot. 44: 609. 1966.
Type: *Merceya latifolia* Kindberg, *C. latifolia* (Kindberg) Schofield, holotype.
Original placement: Pottiaceae.

Crumia, continued.

**C. deciduidentata* A. J. Sharp & Iwatsuki, J. Hattori Bot. Lab. 32: 95. f. 1-2. 1969.
*invalid, single element not cited as holotype (Article 37.3).
Type: U.S.A. Alaska: Moller Bay, NW of hot springs, *Sharp et al. 459*. Herbaria: "TENN and NICH."

C. latifolia (Kindberg) Schofield, Canad. J. Bot. 44: 610. 1966.
Basionym: *Merceya latifolia* Kindberg, 1889.

Cryphaea D. Mohr & Weber, 1814 [1813].

C. blumenauiana Hampe, Vidensk. Meddel. Dansk Naturhist. Foren. Kjøbenhavn, ser. 4, 1: 110. 1879.
Other use: *Schoenobryum blumenauianum* (Hampe) Manuel, 1977.

C. caripensis C. Müller, Linnaea 19: 210. 1847 [1846].
Other use: *Schoenobryum caripense* (C. Müller) Manuel, 1977.

C. coffeae C. Müller, Hedwigia 37: 240. 1898.
Other use: *Schoenobryum coffeae* (C. Müller) Manuel, 1977.

C. evanescens C. Müller, Hedwigia 40: 78. 1901.
Other use: *Schoenobryum evanescens* (C. Müller) Manuel, 1977.

C. floridensis H. Crum, Bryologist 73: 381. 1970.
Type: U.S.A. Florida: Collier Co., Royal Palm Hammock, Collier-Seminole State Park, *Anderson & Crum 13450*. Holotype: CANM; isotype: DUKE.

C. gardneri Mitten, J. Proc. Linn. Soc., Bot., Suppl., 1: 125. 1859.
Other use: *Schoenobryum gardneri* (Mitten) Manuel, 1977.

C. henschenii C. Müller ex Ångström, Öfvers. Förh. Kongl. Svenska Vetensk.-Akad. 33(4): 29. 1876.
Other use: *Schoenobryum henschenii* (C. Müller ex Ångström) Manuel, 1977.

C. kunertii C. Müller, Hedwigia 40: 78. 1901, "*kunerti*."
Other use: *Schoenobryum kunertii* (C. Müller) Manuel, 1977.

C. leiboldii C. Müller, Linnaea 18: 680. 1844 [1845], "*leiboldi*."
Other use: *Schoenobryum leiboldii* (C. Müller) Manuel, 1977.

C. leptopteris C. Müller, Hedwigia 40: 77. 1901.
Other use: *Schoenobryum leptopteris* (C. Müller) Manuel, 1977.

C. leucocolea (Mitten) H. Robinson, Phytologia 23: 150. 1972.
Basionym: *Neckera leucocolea* Mitten, 1869.

C. madagassa C. Müller in Bechenau, Abh. Naturwiss. Vereine Bremen 7: 210. 1881.
Other use: *Schoenobryum madagassum* (C. Müller in Bechenau) Manuel, 1977.

C. mittenii Jaeger, Ber. Thätigk. St. Gallischen Naturwiss. Ges. 1874-75: 180 (Gen. Sp. Musc. 2: 844). 1876.
Replaced name: *Cryphaea apiculata* Mitten, 1869.
Blocking name: *Cryphaea apiculata* B.S.G., 1850.
Other use: *Schoenobryum mittenii* (Jaeger) Manuel, 1981.

Cryphaea, continued.

C. pachycarpa W. P. Schimper ex Bescherelle, Mém. Soc. Sci. Nat. Cherbourg 16: 215. 1872.

Other use: *Sphaerotheciella pachycarpa* (W. P. Schimper ex Bescherelle) Manuel, 1981.

**C. papillarioides* Brotherus in H. P. Ramsay, Taxon 29: 466. 1980.

*invalid, no Latin description (Article 36.1).

C. pinnata W. P. Schimper in B.S.G., Bryol. Eur. fasc. 44-45. Monogr. 5 (5: 35). 1850.

Other use: *Sphaerotheciella pinnata* (W. P. Schimper in B.S.G.) Manuel, 1977.

C. rubricaulis Mitten, J. Linn. Soc., Bot. 12: 415. 1869.

Other use: *Schoenobryum rubicaule* (Mitten) Manuel, 1977.

C. subintegra Renauld & Cardot in Renauld, Rev. Bot. Bull. Mens. 9: 397. 1891.

Other use: *Schoenobryum subintegrum* (Renauld & Cardot in Renauld) Manuel, 1977.

C. welwitschii Duby, Mém. Soc. Phys. Genève 21: 426. pl. 2: f. 1. 1871.

Other use: *Schoenobryum welwitschii* (Duby) Manuel, 1977.

Cryptogonium (C. Mueller) Hampe in F. Müller, 1881.

C. phyllogonioides (Sullivant) Isoviita, J. Hattori Bot. Lab. 60: 452. 1986.

Basionym: *Neckera phyllogonioides* Sullivant, 1854.

Ctenidium (W. P. Schimper) Mitten, 1869.

C. subgen. *Pseudostereodon* Brotherus, Nat. Pflanzenfam. 1(3): 1048. 1908, "*Pseudo-stereodon*."

Other use: *Hypnum* sect. *Pseudostereodon* (Brotherus) Ando, 1973.

C. andoi Nishimura, J. Hattori Bot. Lab. 58: 50. f. 23. 1985.

Type: Philippines [Luzon]. Dist. of Lepanto, Mt. Data, 7000 feet, *Merrill 4939*. Holotype: NY; isotype: H-Brotherus. Other indicated distribution: China (Anhui, Taiwan), Japan, Java, New Guinea.

C. campylophylloides Ando & Nishimura in Iwatsuki, J. Hattori Bot. Lab. 46: 306. f. 3. 1979.

Type: Nepal. Laschetan, 2580 m, *Takiguchi 986*. Holotype: NICH; isotype: HIRO.

Other use: *Campylium campylophylloides* (Ando & Nishimura in Iwatsuki) Nishimura, 1985.

C. falcifolium Dixon, Bull. Torrey Bot. Club 51: 238. 1924.

Other use: *Ectropothecium falcifolium* (Dixon) Nishimura, 1985.

C. floribundarioides Tosco & Piovano, Allionia 4: 183. f. 50-51. 1956.

Original placement: subgen. *Euctenidium* [sic].

Note: not in Index Muscorum.

C. hondurense E. B. Bartram, Field Mus. Nat. Hist., Bot. Ser. 17: 298. 1939.

Note: not in Index Muscorum.

Ctenidium, continued.

C. mauritianum Brotherus in Voeltzkow, Reise Ostafr., Syst. Arbeit. 3: 62. pl. 9: f. 12. 1908.

Other use: *Ectropothecium mauritianum* (Brotherus in Voeltzkow) Nishimura, 1985.

C. novo-guineense Nishimura, J. Hattori Bot. Lab. 58: 46. f. 21. 1985.

Type: Indonesia [New Guinea]. Irian Barat: Star Mts., Mt. Antares, 1500 m, *Zanten 382a*. Holotype: GRO; isotypes: NICH, NY.

C. pinnatum (Brotherus & Paris) Brotherus, Nat. Pflanzenfam. 1(3): 1073. 1908.

Basionym: *Stereodon pinnatus* Brotherus & Paris, 1902.

Note: attributed to Iishiba, Cat. Mosses Japan 275. 1929, in Index Muscorum.

C. reduncum W. P. Schimper ex Mitten, J. Linn. Soc., Bot. 12: 509. 1869.

Other use: *Hygrohypnum reduncum* (W. P. Schimper ex Mitten) Nishimura, 1985.

C. schofieldii Nishimura, J. Hattori Bot. Lab. 58: 27. f. 10. 1985.

Type: Canada. British Columbia: Queen Charlotte Islands, Moresby I., Tasu, Mt. Mining, 780 m, *Schofield & Ando*, 1980. Holotype: UBC; isotype: HIRO.

C. tenerum Brotherus, Oefers. Förh. Finska Vetensk.-Soc. 62A(9): 37. 1921.

Other use: *Campylium tenerum* (Brotherus) Nishimura, 1985.

***Cupressina** C. Müller, 1896.

*illegitimate, type of earlier name included (Article 63.1).

Correct name: *Hypnum* Hedwig, 1801

C. leptothalla C. Müller, Nuovo Giorn. Bot. Ital., n.s., 3: 119. 1896.

Other use: *Eurohypnum leptothallum* (C. Müller) Ando, 1966.

C. minuta C. Müller, Nuovo Giorn. Bot. Ital., n.s., 3: 120. 1896.

Other use: *Hypnum shensianum* Ando, 1966.

C. sinensimollusca C. Müller, Nuovo Giorn. Bot. Ital., n.s., 3: 121. 1896.

Other use: *Hypnum plumaeforme* var. *sinensimolluscum* (C. Müller) Ando, 1971.

C. subarcuata C. Müller, Flora 82: 473. 1896.

Other use: *Pylaisiadelpha subarcuata* (C. Müller) Buck, 1984.

C. tereticaulis C. Müller, Nuovo Giorn. Bot. Ital., n.s., 3: 121. 1896.

Other use: *Eurohypnum leptothallum* var. *tereticaule* (C. Müller) Gao Chien & Chang Kung-chu, 1983.

C. turgens C. Müller, Nuovo Giorn. Bot. Ital., n.s., 5: 196. 1898.

Other use: *Gollania turgens* (C. Müller) Ando, 1966.

C. ulophylla C. Müller, Nuovo Giorn. Bot. Ital., n.s., 3: 122. 1896.

Other use: *Hypnum subimponens* subsp. *ulophyllum* (C. Müller) Ando, 1966.

Curviramea H. Crum, Bryologist 87: 209. 1984.

Type: *Pilotrichum mexicanum* Thériot, *C. mexicanum* (Thériot) H. Crum, holotype.

Original placement: Hookeriaceae.

Curviramea, continued.
C. mexicana (Thériot) H. Crum, Bryologist 87: 209. 1984.
Basionym: *Pilotrichum mexicanum* Thériot, 1928.

Cyathophorella Fleischer, 1908.
**C. rigidula* Chen Pan-chieh, Gen. Musc. Sin. 2: 135. 1978.
*invalid, cited as synonym (Article 34.1).
**C. serrulata* Chen Pan-chieh, Gen. Musc. Sin. 2: 134. 1978.
*invalid, cited as synonym (Article 34.1).
C. taiwaniana Lai Ming-jou, Taiwania 21: 152. pl. 1. 1976.
Type: China. Taiwan: Chiayi, Mt. Alishan, *Lai 333*. Holotype: TAI.

Cyathophorum Palisot de Beauvois, 1804.
C. bulbosum (Hedwig) C. Müller, 1850.
C. bulbosum var. *tahitense* Nadeaud, Énum. Pl. Tahiti 14. 1873.
Note: treated as invalid in Index Muscorum.

Cyclodictyon Mitten, 1863.
C. jamesii H. Robinson, Phytologia 21: 4. f. 3. 1971.
Type: Costa Rica. Puntarenas: near Monteverde, 4300 feet, *James 1969-44*. Holotype: US; isotype: herb. Reed.
C. kinabaluense Noguchi & Iwatsuki, J. Hattori Bot. Lab. 36: 471. f. 2: g-l. 1972.
Type: Malaysia [Borneo]. Sabah: Mt. Kinabalu, Sosopodon, Kundasang, 1350 m, *Iwatsuki 206*. Holotype: NICH.
C. lindigianum (Hampe) Kuntze, 1891.
C. lindigianum var. *acunae* Thériot ex Bizot, Bull. Mens. Soc. Linn. Soc. Bot. Lyon 34: 319. 1965.
Type: Cuba. Oriente: Pic Turquino, *Acuña 286*. Holotype: herb. Thériot.
Note: invalid, no Latin description (Article 36.1), in Mem. Soc. Cub. Hist. Nat. "Felipe Poey" 14: 366. 1940; redundant combination Bryologist 72: 107. 1969.
C. richardsii F. D. Bowers & Magill, Bryologist 78: 470. f. 1-4. 1975 [1976].
Type: Mexico. San Luis Potosi: 16 km N of Tamazunchale, 210 m, *Magill 2290*. Holotype: TENN; isotypes: MEXU, MO, US.
C. subtortifolium (E. B. Bartram) Buck, Brittonia 39: 222. 1987.
Basionym: *Lepidopilum subtortifolium* E. B. Bartram, 1946.
C. varians (Sullivant) Kuntze, 1891.
C. varians var. *hioramii* Thériot ex Bizot, Bull. Mens. Soc. Linn. Soc. Bot. Lyon 34: 319. 1965, "*hiorami*."
Type: Cuba. Loma San Juan, *Hioram 12508*. Holotype: herb. Thériot.
Note: invalid, no Latin description (Article 36.1), in Thériot, Mem. Soc. Bot. Cub. Hist. Nat. "Felipe Poey" 14(4): 365. 1940.

Cygnicollum Fife & Magill, Bryologist 85: 99. 1982.
Type: *C. immersum* Fife & Magill, holotype.
Original placement: Funariaceae.

Cygnicollum, continued.
C. immersum Fife & Magill, Bryologist 85: 99. f. 1-19. 1982.
Type: South Africa. Cape: upper slopes of Vanrhyns Pass, 40 km NE of Vanrhynsdorp, *Magill & Schelpe 3952*. Holotype: PRE; isotypes: MICH, MO.

Cygniella H. Crum, Bryologist 89: 23. f. 1-7. 1986.
Type: *C. sharpii* H. Crum, holotype.
Original placement: Ditrichaceae.
C. sharpii H. Crum, Bryologist 89: 23. f. 1-7. 1986.
Type: Mexico. Chiapas: above Paval, N of Mapastepec, 6400 feet, *Sharp 4458*. Holotype: MICH. Paratype cited.

Cylindrothecium Bruch & W. P. Schimper in B.S.G., 1851.
C. turgidum Ångström, Öfvers. Förh. Kongl. Svenska Vetensk.-Akad. 30(5): 124. 1873.
Other use: *Entodon solanderi* var. *turgidus* (Ångström) H. O. Whittier in H. O. Whittier & B. Whittier, 1974.

***Cymbaria** Taylor, 1848.
*illegitimate, later homonym (Article 64.1)
Earlier name: *Cymbaria* Linnaeus, 1753.
C. jamesonii Taylor, London J. Bot. 7: 190. 1848, "*jamesoni*."
Other use: *Diplostichum jamesonii* (Taylor) H. Robinson, 1975.

Cynodontium W. P. Schimper, 1856, conserved name.
C. guatemalense (E. B. Bartram) H. Crum, Bryologist 87: 203. 1984.
Basionym: *Oncophorus guatemalensis* E. B. Bartram, 1946.
C. mexicanum Ireland, Bryologist 88: 372. f. 1-11. 1985 [1986].
Type: Mexico. Oaxaca: along road north of Llano de las Flores, north of Oaxaca, 2000-2500 m, *Iwatsuki & Sharp 3168*. Holotype: TENN; isotypes: CANM, MICH.

Cyrtomnium Holmen, 1957.
C. hymenophylloides (Hübener) T. Koponen, Ann. Bot. Fenn. 5: 143. 1968.
Basionym: *Mnium hymenophylloides* Hübener, 1833.
Note: invalid, basionym not cited (Article 33.2), in Ill. Moss Fl. Fennoscandia. II. Musci 276. 1958.

Daltonia W. J. Hooker & Taylor, 1818, conserved name.
D. cardotii Bizot & Onraedt in Bizot, Rev. Bryol. Lichénol. 42: 851. 1976.
Replaced name: *Daltonia intermedia* Renauld & Cardot, 1894 [1895].
Blocking name: *Daltonia intermedia* (Bridel) Arnott, 1827.
D. decolyi Brotherus ex Gangulee, Mosses E. India 6: 1473. f. 733. 1977.
Type: India. Darjeeling, Sepoyjhora, Kurseong, *Decoly & Schaul s.n.* (Bryoth. Levier 2567). Holotype: H-Brotherus; isotype: BM.

Daltonia, continued.

D. fenestrellata Griffin, Brittonia 32: 214. f. 1-8. 1980.
Type: Colombia. Meta: Cerro Nevado de Sumapaz, Quebrada El Buque, 3350 m, *Cleef 7820*. Holotype: COL; isotypes: FLAS, NY, U.

D. gomezii Crosby, Brenesia 4: 10. f. 15. 1974.
Type: Costa Rica. Cartago: NW of La Ascension, *Crosby & Crosby 6130*. Holotype: MO; isotype: CR.

**D. intermedia* Renauld & Cardot, Bull. Soc. Roy. Bot. Belgique 33(2): 127. 1894 [1895].
*illegitimate, later homonym (Article 64.1).
Earlier name: *Daltonia intermedia* (Bridel) Arnott, 1827.
Correct name: *Daltonia cardotii* Bizot & Onraedt in Bizot, 1976.

**D. onraedtii* Bizot, Rev. Bryol. Lichénol. 40: 126. pl. 16. 1974.
*invalid, single element not cited as holotype (Article 37.3).
Type: Reunion. Plaine des Cafres, *Onraedt 147*. Herbaria: "herbiers Onraedt et Bizot."

D. straminea Mitten ex Beckett, Trans. & Proc. New Zealand Inst. 26: 276. pl. 28. 1893 [1894].
Other use: *Crosbya straminea* (Mitten ex Beckett) Vitt, 1977.

D. subapiculata Hampe ex Gangulee, Mosses E. India 6: 1478. f. 737. 1977.
Type: India. Sonadah, Darjeeling Dt., 6500-7000 feet, *Kurz 2400*. Holotype: BM.

Dasymitrium Lindberg, 1864.

D. makinoi Brotherus, Hedwigia 38: 215. 1899.
Other use: *Macromitrium japonicum* var. *makinoi* (Brotherus) Noguchi, 1989.

D. nadeaudii Bescherelle, Bull. Soc. Bot. France 45: 65. 1898.
Other use: *Macromitrium tahitisecundum* Margadant, 1972.

Dawsonia R. Brown, 1811.

D. beccarii Brotherus & Geheeb, 1896.

D. beccarii var. *limbata* (Dixon) Zanten & Heukels in Zanten, Lindbergia 2: 38. 1973.
Basionym: *Dawsonia limbata* Dixon, 1922.

D. beccarii var. *longivaginata* Zanten & Heukels in Zanten, Lindbergia 2: 40. pl. 7: a, 8: d, 10: g. 1973.
Type: Papua New Guinea. Morobe: Mt. Kaindi near Wau, *Zanten 68345*. Holotype: GRO; isotypes: BM, L, NICH, NY.

D. limbata Dixon, J. Linn. Soc., Bot. 45: 486. pl. 28: f. 4. 1922.
Other use: *Dawsonia beccarii* var. *limbata* (Dixon) Zanten & Heukels in Zanten, 1973.

D. longifolia (Bruch & W. P. Schimper in B.S.G.) Zanten, Lindbergia 4: 133. 1977.
Basionym: *Polytrichum longifolium* Bruch & W. P. Schimper in B.S.G., 1844.

D. longifolia var. *superba* (Greville) Zanten, Lindbergia 4: 133. 1977.
Basionym: *Dawsonia superba* Greville, 1847.

Dawsonia, continued.
D. papillata Zanten, Nova Guinea, Bot. 10(16): 358. pl. 33: f. 5. 1964.
Type: Indonesia [New Guinea]. Irian Barat: Mt. Antares, below Camp 42, 3200 m, *Zanten 669*. Holotype: L; isotype: GRO.
D. pulchra Wijk, Rev. Bryol. Lichénol. 26: 11. f. 2-3: 1, 4: 1. 1957.
Other use: *Dawsonia superba* var. *pulchra* (Wijk) Zanten, 1972.
D. superba Greville, Ann. Mag. Nat. Hist. 19: 226. pl. 12. 1847.
Other use: *Dawsonia longifolia* var. *superba* (Greville) Zanten, 1977.
D. superba var. *pulchra* (Wijk) Zanten, Jaarb. Meded. Kon. Ned. Bot. Ver. 1971: 36. 1972.
Basionym: *Dawsonia pulchra* Wijk, 1957.

Dendrocryphaea Paris & W. P. Schimper ex Brotherus in Engler & Prantl, 1905.
D. latifolia Griffin, Gradstein & Aguirre, Acta Bot. Neerl. 31: 175. f. 1-3. 1982.
Type: Colombia. Cundinamarca: Paramo de Chisaca, in the Rio Santa Rosa, 3400 m, *Gradstein & Aguirre 3664*. Holotype: COL; isotypes: B, FH, FLAS, GRO, H, L, MO, NICH, NY, PC, U, US.

Dendrocyathophorum Dixon, 1936.
D. herzogii Gangulee, Mosses E. India 6: 1540. f. 772: 3. 1977.
Type: China. Taiwan, *Schwabe s.n.* Holotype: JE-Herzog.

Dendroligotrichum (C. Müller) Brotherus in Engler & Prantl, 1905.
D. dendroides (Bridel ex Hedwig) Brotherus, 1905.
D. dendroides subsp. *microdendron* (C. Müller) G. L. Smith, Mem. New York Bot. Gard. 21(3): 62. 1971.
Basionym: *Catharinea microdendron* C. Müller, 1897.
D. microdendron (C. Müller) G. L. Smith, Phytologia 18: 403. 1969.
Basionym: *Catharinea microdendron* C. Müller, 1897.
D. squamosum (J. D. Hooker & Wilson) Cardot, Wiss. Erb. Schwed. Südpolar-Exp. 4(8): 156. 1908.
Basionym: *Polytrichum squamosum* J. D. Hooker & Wilson, 1844.
Note: not in Index Muscorum.

Desmatodon Bridel, 1819 [1818].
D. austrogeorgicus (Cardot) Ochyra in Ochyra, Vitt & D. G. Horton, Cryptog. Bryol. Lichénol. 7: 57. 1986.
Basionym: *Pottia austrogeorgica* Cardot, 1906.
D. ellesmerensis Brassard, Bryologist 74: 208. f. 1-11. 1971.
Type: Canada. Northwest Territories: Ellesmer Island, vicinity of Alert Weather Station, 82°30' N, 62°20' W, ca. 75 m, *Brassard 4467*. Holotype: CANM; isotypes: MICH, NY, S-PA, herb. Brassard.
D. fisherae H. Crum, Bryologist 75: 360. f. 1-6. 1972.
Type: U.S.A. Virginia: Giles Co., Pearisburg, *Fisher*, 1965. Holotype: MICH.

Desmatodon, continued.

D. haussknechtii (Juratzka & Milde) J. Fröhlich, Ann. Naturhist. Mus. Wien 67: 155. 1964.

Basionym: *Barbula haussknechtii* Juratzka & Milde, 1870.

D. heimii (Hedwig) Mitten, 1864.

D. heimii var. *arcticus* (Lindberg) H. Crum, Bryologist 72: 242. 1969, "*arctica*."

Basionym: *Pottia heimii* var. *arctica* Lindberg, 1866 [1867].

D. leucostoma (R. Brown) Berggren, 1874.

D. leucostoma var. *muticus* (Lindberg) Savicz-Ljubitskaya, Novosti Sist. Niz. Rast. 6: 248. 1969 [1970], "*leucostomus*."

Basionym: *Desmatodon obliquus* var. *muticus* Lindberg, 1866 [1867].

D. longipedunculatus (C. Müller) Magill, Fl. S. Africa, Bryophyta, Mosses 1: 210. 1981 [1982].

Basionym: *Barbula longipedunculata* C. Müller, 1849.

**D. obliquus* Bruch & W. P. Schimper, 1843.

*illegitimate, type of earlier name included (Article 63.1).

D. obliquus var. *muticus* Lindberg, Öfvers. Förh. Kongl. Svenska Vetensk.-Akad. 23: 553. 1866 [1867].

Other use: *Desmatodon leucostoma* var. *muticus* (Lindberg) Savicz-Ljubitskaya, 1969 [1970].

D. raucopapillosus Li Xing-jiang, Acta Bot. Yunnan. 3: 105. f. 3. 1981, "*raucopapillosum*."

Type: China. Xizang: Xaga Xian, 5000 m, *Lang 1210*. Holotype: KUN.

D. spathulifolius E. B. Bartram, Bryologist 50: 205. 1947.

Other use: *Hyophilopsis spathulifolia* (E. B. Bartram) H. Crum, 1965, *Neohyophila spathulifolia* (E. B. Bartram) H. Crum, 1965 [1966].

D. steereanus Zander & H. Crum, Bryologist 80: 638. f. 1-10. 1977 [1978].

Type: Peru. Junin: Yauli, Moronacocha, Minas San Jose, alt. 4800 m, *Hegewald 5456*. Holotype: BUF; isotypes: MICH, US, herb. Hegewald.

Dialytrichia (W. P. Schimper) Limpricht, 1888.

D. mucronata (Bridel) Brotherus, 1902.

**D. mucronata* var. *fragilifolia* Bizot & J. Roux, Rev. Bryol. Lichénol. 36: 110. 1968 [1969].

*invalid, single element not cited as holotype (Article 37.3).

Type: France. Foret de Malmont, collector not indicated by authors. Herbaria: "herb. Bizot et Roux."

Diaphanodon Renauld & Cardot, 1895.

D. friisii Bizot & Lewinsky, Lindbergia 4: 275. f. 2. 1978.

Type: Ethiopia. Kaffa, Bonga, near Catholic Mission, *Friis et al. 152A*. Holotype: C.

D. gracillimus Cardot & Thériot, Bull. Acad. Int. Géogr. Bot. 18: ii. 1908.

Other use: *Claopodium gracillimum* (Cardot & Thériot) Noguchi, 1964.

Dichelyma Myrin, 1833.
D. falcatum (Hedwig) Myrin, 1833.
D. falcatum var. *uncinatum* (Mitten) E. Lawton, Moss Fl. Pacific Northwest 231. 1971.
Basionym: *Dichelyma uncinatum* Mitten, 1864.
D. uncinatum Mitten, J. Proc. Linn. Soc., Bot. 8: 44. pl. 8. 1864.
Other use: *Dichelyma falcatum* var. *uncinatum* (Mitten) E. Lawton, 1971.

Dichodontium W. P. Schimper, 1856.
D. paludella Bescherelle, Bull. Soc. Bot. France 32: lv. 1885.
Other use: *Neomeesia paludella* (Bescherelle) Deguchi, 1983.

Dicnemon Schwägrichen, 1826.
D. sect. *Hypnopsis* (C. Müller) B. H. Allen, J. Hattori Bot. Lab. 62: 46. 1987.
Basionym: *Dicnemon* subgen. *Hypnopsis* C. Müller, 1900.
D. subgen. *Hypnopsis* C. Müller, Gen. Musc. Frond. 252. 1900.
Other use: *Dicnemon* sect. *Hypnopsis* (C. Müller) B. H. Allen, 1987.
D. sect. *Synodontia* (Duby ex Bescherelle) B. H. Allen, J. Hattori Bot. Lab. 67: 39. 1987.
Basionym: *Dicnemon* subgen. *Synodontia* Duby ex Bescherelle, 1873.
D. subgen. *Synodontia* Duby ex Bescherelle, Ann. Sci. Nat. Bot., ser. 5, 18: 190. 1873.
Other use: *Dicnemon* sect. *Synodontia* (Duby ex Bescherelle) B. H. Allen, 1987.
D. aneitense (Brotherus & Watts) B. H. Allen, Hikobia 10: 262. 1989, "*aneitensis*."
Basionym: *Synodontia aneitensis* Brotherus & Watts, 1915.
D. cochlearifolium (Thériot) B. H. Allen, J. Hattori Bot. Lab. 62: 62. 1987.
Basionym: *Synodontia cochlearifolia* Thériot, 1910.
D. dixonianum B. H. Allen, J. Hattori Bot. Lab. 62: 30. pl. 14. 1987.
Type: New Zealand. Te Apiti, Seventy Mile Bush, Hawke's Bay, *Beckett.* Holotype: CHR; isotypes: BM, FI. Paratypes cited.
Original placement: sect. *Dicnemon*.
D. novae-guineae (Dixon) B. H. Allen, J. Hattori Bot. Lab. 62: 78. 1987.
Basionym: *Eucamptodon novae-guineae* Dixon, 1943.
D. robbinsii (E. B. Bartram) B. H. Allen, J. Hattori Bot. Lab. 62: 75. 1987.
Basionym: *Eucamptodon robbinsii* E. B. Bartram, 1959.
D. robustum E. B. Bartram, Bryologist 48: 112. 1945.
Other use: *Dicranum bartramianum* B. H. Allen, 1987.
D. seriatum (Brotherus & Paris) B. H. Allen, J. Hattori Bot. Lab. 62: 48. 1987.
Basionym: *Synodontia seriata* Brotherus & Paris, 1906.
D. subpiliferum (Brotherus & Paris) B. H. Allen, J. Hattori Bot. Lab. 62: 70. 1987.
Basionym: *Synodontia subpilifera* Brotherus & Paris, 1906.

Dicranella (C. Müller) W. P. Schimper, 1856.
**D.* sect. *Pseudodicranella* Nyholm, Ill. Fl. Nord. Mosses 1: 31. 1986.
*invalid, no Latin description (Article 36.1).
D. calcarea (E. B. Bartram) H. Crum, Bryologist 87: 204. 1984.
Basionym: *Dicranoweisia calcarea* E. B. Bartram, 1946.
D. coarctata (C. Müller) Bosch & Sande Lacoste, 1858.
D. coarctata var. *obscura* (Sullivant & Lesquereux) Iwatsuki, J. Hattori Bot. Lab. 29: 55. 1966.
Basionym: *Dicranella obscura* Sullivant & Lesquereux, 1859.
D. glauca Bescherelle, 1873.
D. glauca var. *minor* Brotherus, Oefers. Förh. Finska Vetensk.-Soc. 48(15): 3. 1906.
Other use: *Microdus glaucus* var. *minor* (Brotherus) H. A. Miller, H. O. Whittier & B. Whittier, 1978.
D. macrospora Gangulee, Nova Hedwigia 8: 145. pl. 3. 1964.
Type: India. Assam, *Griffith s.n.* Holotype: BM.
D. obscura Sullivant & Lesquereux, Proc. Amer. Acad. Arts 4: 277. 1859.
Other use: *Dicranella coarctata* var. *obscura* (Sullivant & Lesquereux) Iwatsuki, 1966.
D. ohioensis (H. Robinson) H. Crum, Bryologist 72: 242. 1969.
Basionym: *Bartleya ohioensis* H. Robinson, 1966.
D. pacifica Schofield, Bryologist 73: 703. 1970.
Type: Canada. British Columbia: Vancouver, Spanish Banks, 49°16' N, 123°14' W, *Schofield 40422*. Holotype: UBC.
D. palustris (Dickson) Crundwell in E. F. Warburg, Trans. Brit. Bryol. Soc. 4: 247. 1962 [1963].
Basionym: *Bryum palustre* Dickson, 1801.
D. papillinervis Dixon, Anniv. Vol. Bot. Gard. Calcutta 177. 1942.
Original placement: sect. *Anisothecium*.
Note: not in Index Muscorum.
D. pseudosubulata C. Müller ex Gangulee, Bull. Bot. Soc. Bengal 14: 21. f. 39. 1960 [1963].
D. rotundata (Brotherus) Takaki, J. Jap. Bot. 43: 467. 1968.
Basionym: *Anisothecium rotundatum* Brotherus, 1929.
**D. schreberi* W. P. Schimper, 1856.
*illegitimate, type of earlier name included (Article 63.1).
D. schreberi var. *robusta* W. P. Schimper ex Braithwaite, J. Bot. 9: 289. 1871.
Other use: *Dicranella schreberiana* var. *robusta* (W. P. Schimper ex Braithwaite) H. Crum & L. E. Anderson, 1981.
D. schreberiana (Hedwig) Hilferty ex H. Crum & L. E. Anderson, Mosses E. N. Amer. 1: 169. 1981.
Basionym: *Dicranum schreberianum* Hedwig, 1801.
D. schreberiana var. *robusta* (W. P. Schimper ex Braithwaite) H. Crum & L. E. Anderson, Mosses E. N. Amer. 1: 171. 1981.
Basionym: *Dicranella schreberi* var. *robusta* W. P. Schimper ex Braithwaite, 1871.

Dicranella, continued.

D. sericea E. B. Bartram, Rev. Bryol. Lichénol. 33: 3. 1964 [1965].
Type: Ecuador. On moraine S of W. glacier of Antisana, 6450 m, *Grubb 2502*. Holotype: BM. Paratypes cited.

D. staphylina H. Whitehouse, Trans. Brit. Bryol. Soc. 5: 757. f. 2-3a. 1969.
Type: United Kingdom. Norfolk, Pockthorpe, near Lying, *Whitehouse*, 1968. Holotype: CGE. Other indicated distribution: Sweden, Germany (?).
Other use: *Anisothecium staphylinum* (H. Whitehouse) Sipman, Rubers & Riemann, 1972.

D. sumatrana Dixon, Ann. Bryol. 5: 20. 1932.
Other use: *Microdus sumatranus* (Dixon) A. Eddy, 1988.

D. venezuelana (Dozy & Molkenboer) Buck, Brittonia 31: 472. 1979.
Basionym: *Campylostelium venezuelanum* Dozy & Molkenboer, 1854.

Dicranodontium Bruch & W. P. Schimper in B.S.G., 1847.

D. capillifolium (Dixon) Takaki, J. Hattori Bot. Lab. 31: 292. 1968.
Basionym: *Brothera capillifolia* Dixon, 1937.

D. fleischerianum Schultze-Motel, Taxon 12: 127. 1963.
Replaced name: *Dicranodontium nitidum* (Dozy & Molkenboer) Fleischer, 1904.
Blocking name: *Dicranodontium nitidum* T. P. James, 1875.

D. fleischerianum var. *clemensiae* (E. B. Bartram) Schultze-Motel, Taxon 12: 127. 1963.
Basionym: *Dicranodontium nitidum* var. *clemensiae* E. B. Bartram, 1936.

D. fleischerianum var. *longisetum* (Brotherus) Touw, J. Hattori Bot. Lab. 44: 150. 1978.
Basionym: *Dicranodontium nitidum* var. *longisetum* Brotherus, 1928.

D. fleischerianum fo. *merrillii* (Brotherus ex E. B. Bartram) B. C. Tan, Ann. Bot. Fenn. 20: 234. 1983.
Basionym: *Dicranodontium uncinatum* var. *merrillii* Brotherus ex E. B. Bartram, 1939.

**D. nitidum* (Dozy & Molkenboer) Fleischer, Musci Buitenzorg 1: 87. 1904.
*illegitimate, later homonym (Article 64.1).
Basionym: *Campylopus nitidus* Dozy & Molkenboer, 1847.
Earlier name: *Dicranodontium nitidum* T. P. James, 1875.
Correct name: *Dicranodontium fleischerianum* Schultze-Motel, 1963.

D. nitidum var. *clemensiae* E. B. Bartram, Philipp. J. Sci. 61: 236. 1936.
Other use: *Dicranodontium fleischerianum* var. *clemensiae* (E. B. Bartram) Schultze-Motel, 1963.

D. nitidum var. *longisetum* Brotherus, Mitt. Inst. Allg. Bot. Hamburg 7(2): 116. 1928.
Other use: *Dicranodontium fleischerianum* var. *longisetum* (Brotherus) Touw, 1978.

Dicranodontium, continued.

D. papillifolium Gao Chien in Gao Chien, Zhang Man-xiang & Cao Tong, Acta Bot. Yunnan. 3: 393. f. 3: 13-20. 1981.
Type: China. Xizang: Districtus Yadong Xian, 2700 m, *Chen 7799*. Holotype: IFP; isotype: KUN.

**D. uncinatum* (Harvey in W. J. Hooker) C. Müller, 1848.
*illegitimate, later homonym (Article 64.1)

D. uncinatum var. *merrillii* Brotherus ex E. B. Bartram, Philipp. J. Sci. 68: 47. 1939.
Other use: *Dicranodontium fleischerianum* fo. *merrillii* (Brotherus ex E. B. Bartram) B. C. Tan, 1983.

Dicranoloma (Renauld) Renauld, 1901.

D. brachycarpum Brotherus, Ann. Bryol. 1: 18. 1928.
Other use: *Dicranoloma cylindrothecium* var. *brachycarpum* (Brotherus) Takaki, 1966, *Dicranoloma striatulum* var. *brachycarpum* (Brotherus) Noguchi, 1986.

D. braunii (C. Müller) Paris, 1904.

D. braunii var. *samoanum* Brotherus in Rechinger, Akad. Wiss. Wien, Math.-Naturwiss. Kl., Denkschr. 84: 387. 1908, "*samoana*."
Other use: *Dicranoloma brevisetum* var. *samoanum* (Brotherus in Rechinger) B. C. Tan & T. Koponen, 1983.

D. brevisetum (Dozy & Molkenboer) Paris, 1904.

D. brevisetum fo. *nematosum* (Brotherus & Geheeb) B. C. Tan & T. Koponen, Ann. Bot. Fenn. 20: 326. 1983.
Basionym: *Dicranum nematosum* Brotherus & Geheeb, 1898.

D. brevisetum var. *samoanum* (Brotherus in Rechinger) B. C. Tan & T. Koponen, Ann. Bot. Fenn. 20: 326. 1983.
Basionym: *Dicranoloma braunii* var. *samoanum* Brotherus in Rechinger, 1908.

D. cylindrothecium (Mitten) Sakurai, 1952.

D. cylindrothecium var. *brachycarpum* (Brotherus) Takaki, J. Hattori Bot. Lab. 29: 219. 1966.
Basionym: *Dicranoloma brachycarpum* Brotherus, 1928.

D. cylindrothecium var. *maedae* (Sakurai) Takaki, J. Hattori Bot. Lab. 29: 221. 1966.
Basionym: *Dicranum maedae* Sakurai, 1952.

D. entabeniense Magill in Magill & Schelpe, Mem. Bot. Surv. South Africa 43: 3. f. 1-8. 1979.
Type: South Africa. Northern Transvaal, Entabeni Forest, Soutpansberg, *Bottomley PRE-CH 3381*. Holotype: PRE; isotypes: H, L, MO, NY.

D. geluense (Herzog) B. H. Allen, J. Hattori Bot. Lab. 61: 278. 1986.
Basionym: *Werneriobryum geluense* Herzog, 1909.

Dicranoloma, continued.

D. havilandii Brotherus, 1928.

D. havilandii var. *latifolium* Zanten, Nova Guinea, Bot. 10(16): 272. pl. 23: f. 3. 1964.

Type: Indonesia [New Guinea]. Irian Barat: Mt. Antares, below W summit, 3300 m, *Zanten 677a*. Holotype: L; isotype: GRO.

D. kunkelii H. Robinson, Phytologia 29: 117. f. 3. 1974.

Type: Chile. Juan Fernandez Islands: Mas a Tierra, *Kunkel 312/4*. Holotype: H; isotype: US.

D. onraedtii Bizot, Rev. Bryol. Lichénol. 42: 852. 1976.

Type: Reunion. Pas de Bellecombe, Piton de la Fournaise, *Onraedt 309*. Holotype: herb. Bizot; isotype: herb. Onraedt.

Note: invalid, holotype not indicated (Article 37.1), in Rev. Bryol. Lichénol 40: 411. pl. 8. 1974.

D. rugosum (W. J. Hooker) B. H. Allen, J. Hattori Bot. Lab. 61: 275. 1986.

Basionym: *Leucodon rugosus* W. J. Hooker, 1818.

D. striatulum (Mitten) Noguchi, J. Hattori Bot. Lab. 60: 157. 1986.

Basionym: *Dicranum striatulum* Mitten, 1891.

D. striatulum var. *brachycarpum* (Brotherus) Noguchi, J. Hattori Bot. Lab. 60: 157. 1986.

Basionym: *Dicranoloma brachycarpum* Brotherus, 1928.

D. tibetanum Gao Chien in Gao Chien & Chang Kung-chu, Acta Phytotax. Sin. 17: 115. f. 1: 14-21. 1979.

Type: China. Xizang: Medog Xian, 3190 m, *Ecol. Off. Tibet Sect. M.7436* (2). Holotype: IFP.

D. validinerve Dixon, J. Bot. 79: 58. 1941.

Other use: *Campylopus validinervis* (Dixon) B. C. Tan, 1989.

Dicranoweisia Lindberg ex Milde, 1869.

D. calcarea E. B. Bartram, Bryologist 49: 111. 1946.

Other use: *Dicranella calcarea* (E. B. Bartram) H. Crum, 1984.

D. crispula (Hedwig) Milde, 1869.

D. crispula var. *roellii* (Kindberg in Röll) E. Lawton, Moss Fl. Pacific Northwest 72. 1971 [May].

Basionym: *Dicranoweisia roellii* Kindberg in Röll, 1896.

Note: redundant combination in Crum, Bryologist 74: 168. 1971 [16 Aug].

D. papuana Dixon, Farlowia 1: 27. 1943.

Other use: *Holomitrium weisioides* Dixon ex A. Eddy, 1988.

D. roellii Kindberg in Röll, Hedwigia 35: 59. 1896.

Other use: *Dicranoweisia crispula* var. *roellii* (Kindberg in Röll) E. Lawton, 1971 [May].

Dicranum Hedwig, 1801.

**D.* sect. *Muehlenbeckia* Peterson ex Nyholm, Ill. Fl. Nord. Mosses 1: 53. 1986.

**invalid, no Latin description (Article 36.1).

Dicranum, continued.

D. affine Funck, 1806.

D. affine var. *acutifolium* (Lindberg & H. Arnell) Margadant, Lindbergia 1: 126. 1972.

Basionym: *Dicranum bergeri* var. *acutifolium* Lindberg & H. Arnell, 1890.

D. affine fo. *compactum* (Renauld & Cardot ex Dixon) Margadant, Lindbergia 1: 127. 1972.

Basionym: *Dicranum bergeri* var. *compactum* Renauld & Cardot ex Dixon, 1896.

D. affine fo. *condensatum* (Breidler in Warnstorf) Margadant, Lindbergia 1: 127. 1972.

Basionym: *Dicranum bergeri* var. *condensatum* Breidler in Warnstorf, 1904.

D. affine fo. *crispulum* (Warnstorf) Margadant, Lindbergia 1: 127. 1972.

Basionym: *Dicranum bergeri* var. *crispulum* Warnstorf, 1899.

D. affine fo. *ericetorum* (R. Hult) Margadant, Lindbergia 1: 127. 1972.

Basionym: *Dicranum bergeri* var. *ericetorum* R. Hult, 1886.

D. affine fo. *integrifolium* (Röll) Margadant, Lindbergia 1: 127. 1972.

Basionym: *Dicranum bergeri* var. *integrifolium* Röll, 1903.

D. affine fo. *mamillosum* (E. Jørgensen) Margadant, Lindbergia 1: 127. 1972.

Basionym: *Dicranum bergeri* var. *mamillosum* E. Jørgensen, 1894.

D. affine fo. *rigidum* (Kindberg) Margadant, Lindbergia 1: 127. 1972.

Basionym: *Dicranum bergeri* subsp. *rigidum* Kindberg, 1896.

D. affine fo. *umbrosum* (C. E. O. Jensen) Margadant, Lindbergia 1: 127. 1972.

Basionym: *Dicranum intermedium* fo. *umbrosum* C. E. O. Jensen, 1923.

D. angustirete Austin, Bot. Gaz. (Crawfordsville) 4: 150. 1879, "*angustiretis*."

Other use: *Campylopus surinamensis* var. *angustiretis* (Austin) Frahm, 1980 [1981].

D. atroluteum C. Müller, Hedwigia 38: 80. 1899.

Other use: *Campylopus bicolor* subsp. *atroluteus* (C. Müller) Frahm, 1985.

D. bartramianum B. H. Allen, Cryptog. Bryol. Lichénol. 8: 323. 1987.

Replaced name: *Dicnemon robustum* E. B. Bartram, 1945.

Blocking name: *Dicranum robustum* J. D. Hooker & Wilson, 1844.

D. bergeri Blandow in J. W. Sturm, 1805.

D. bergeri var. *acutifolium* Lindberg & H. Arnell, Kongl. Svenska Vetensk. Acad. Handl. 23(10): 79. 1890.

Other use: *Dicranum affine* var. *acutifolium* (Lindberg & H. Arnell) Margadant, 1972.

D. bergeri var. *compactum* Renauld & Cardot ex Dixon, Stud. Handb. Brit. Mosses 106. 1896.

Other use: *Dicranum affine* fo. *compactum* (Renauld & Cardot ex Dixon) Margadant, 1972.

D. bergeri var. *condensatum* Breidler in Warnstorf, Krypt.-Fl. Brandenburg, Laubm. 2: 148. 1904.

Other use: *Dicranum affine* fo. *condensatum* (Breidler in Warnstorf) Margadant, 1972.

Dicranum, continued.

D. bergeri var. *crispulum* Warnstorf, Verh. Bot. Vereins Prov. Brandenburg 41: 50. 1899.
Other use: *Dicranum affine* fo. *crispulum* (Warnstorf) Margadant, 1972.

D. bergeri var. *ericetorum* R. Hult, Acta Soc. Fauna Fl. Fenn. 3(1): 89. 1886.
Other use: *Dicranum affine* fo. *ericetorum* (R. Hult) Margadant, 1972.

D. bergeri var. *integrifolium* Röll, Hedwigia 42(Beibl.): 299. 1903, "*integrifolia*."
Other use: *Dicranum affine* fo. *integrifolium* (Röll) Margadant, 1972.

D. bergeri var. *mamillosum* E. Jørgensen, Forh. Vidensk.-Selsk. Christiania 8: 66. 1894.
Other use: *Dicranum affine* fo. *mamillosum* (E. Jørgensen) Margadant, 1972.

D. bergeri subsp. *rigidum* Kindberg, Bot. Not. 1896: 192. 1896.
Replaced name: *Dicranum rigidum* Kindberg, 1883.
Blocking name: *Dicranum rigidum* (Hornschuch) C. Müller, 1848.
Other use: *Dicranum affine* fo. *rigidum* (Kindberg) Margadant, 1972.

D. berteroanum Bridel, Bryol. Univ. 1: 445. 1826, "*berterianum*."
Other use: *Syrrhopodon incompletus* var. *berteroanus* (Bridel) W. D. Reese, 1977.

D. bonjeanii De Notaris in Lisa, 1837.

D. bonjeanii var. *alpinum* Pilous, Preslia 41: 128. f. 4: 2. 1969.
Type: Czechoslovakia. Slovakia: Belanske Tatry, Zdiarska Vidla, 2200 m, *Pilous s.n.* Holotype: herb. Pilous.

D. bonjeanii fo. *crispatum* (Mikutowicz) Smirnova, Novosti Sist. Niz. Rast. 6: 254. 1969 [1970].
Basionym: *Dicranum undulatum* var. *crispatum* Mikutowicz, 1910.

D. bonjeanii var. *turgescens* Pilous, Preslia 41: 128. f. 4: 1. 1969.
Type: Czechoslovakia. Montes Krkonose, Kotel, 1400 m, *Pilous s.n.* Holotype: herb. Pilous.

D. conanenum Gao Chien in Gao Chien & Chang Kung-chu, Acta Phytotax. Sin. 17: 115. f. 1: 1-7. 1979.
Type: China. Xizang: Cona Xian, 4500 m, *Ecol. Off. Tibet Sect. M.744*. Holotype: IFP.

D. costaricense E. B. Bartram, J. Wash. Acad. Sci. 19: 13. f. 1: a-k. 1929.
Other use: *Campylopus valerioi* B. H. Allen, 1989.

D. dicnemoides C. Müller, Bull. Herb. Boissier 6: 36. 1898.
Other use: *Campylopus cuspidatus* var. *dicnemoides* (C. Müller) Frahm, 1979.

D. diplospiniferum Gao Chien & Ao Zhi-wen, Bull. Bot. Lab. North-E. Forest. Inst. 7: 99. f. 2. 1980.
Type: China. Xizang: Mainling Xian, 3000 m, *Chen 4876*. Holotype: IFP.

D. drummondii C. Müller, 1848.

D. drummondii var. *alpinum* (I. Hagen) Wijk & Margadant, Taxon 14: 196. 1965.
Basionym: *Dicranum elatum* var. *alpinum* I. Hagen, 1915.
Note: redundant combination in Margadant, Lindbergia 1: 127. 1972.

Dicranum, continued.

D. drummondii subsp. *elatum* (Lindberg) U. Mizushima, J. Jap. Bot. 45: 158. 1970.
Basionym: *Dicranum elatum* Lindberg, 1865.

D. elatum Lindberg, Bot. Not. 1865: 78. 1865.
Other use: *Dicranum drummondii* subsp. *elatum* (Lindberg) U. Mizushima, 1970.

D. elatum var. *alpinum* I. Hagen, Kongel. Norske Vidensk. Selsk. Skr. (Trondheim) 1914 (1): 177. 1915.
Other use: *Dicranum drummondii* var. *alpinum* (I. Hagen) Wijk & Margadant, 1965.

D. exaltatum C. Müller, Linnaea 42: 472. 1879.
Other use: *Campylopus cubensis* var. *exaltatus* (C. Müller) Frahm, 1985, *Campylopus lamellinervis* var. *exaltatus* (C. Müller) Frahm, 1975.

D. filifolium Hornschuch, Fl. Bras. 1(2): 12. 1840.
Other use: *Bryohumbertia filifolia* (Hornschuch) Frahm, 1982.

D. flagellaceum C. Müller, Syn. Musc. Frond. 2: 597. 1851.
Other use: *Campylopodiella flagellacea* (C. Müller) Frahm & Isoviita, 1988.

D. fuscescens Turner, 1804.

D. fuscescens fo. *pallidisetum* J. W. Bailey in Holzinger, Musci Acrocarpi Bor.-Amer. 653. 1929.
Other use: *Dicranum pallidisetum* (J. W. Bailey in Holzinger) Ireland, 1965 [1966].

D. gregoryi B. H. Allen, Bryologist 91: 91. f. 1-7. 1988.
Type: Peru. Ancash: 16 km E of Yungay, 4267 m, *Allen 4320*. Holotype: MO; isotypes: FLAS, NY, herb. Allen.

D. hakkodense Cardot, Bull. Herb. Boissier, sér. 2, 7: 714. 1907.
Other use: *Dicranum viride* var. *hakkodense* (Cardot) Takaki, 1972.

D. hawaiicoflexuosum C. Müller, Flora 82: 443. 1896.
Other use: *Campylopus hawaiicus* var. *hawaiicoflexuosus* (C. Müller) Frahm, 1978.

**D. intermedium* Crome, 1805.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Dicranum intermedium* Hedwig, 1801.

D. intermedium fo. *umbrosum* C. E. O. Jensen, Danmarks Mosser 2: 296. 1923.
Other use: *Dicranum affine* fo. *umbrosum* (C. E. O. Jensen) Margadant, 1972.

D. khasianum Griffiths, Calcutta J. Nat. Hist. 2: 496. 1842, "*khasiyanum*."
Other use: *Microcampylopus khasianus* (Griffiths) Giese & Frahm, 1986.

D. lamprodictyon Hampe, Ann. Sci. Nat. Bot., ser. 5, 5: 339. 1866.
Other use: *Campylopus pauper* var. *lamprodictyon* (Hampe) Frahm, 1987.

D. lapidicola C. Müller, Hedwigia 39: 258. 1900.
Other use: *Campylopus griseus* var. *lapidicola* (C. Müller) Frahm, 1975.

D. linzianum Gao Chien in Gao Chien & Chang Kung-chu, Acta Phytotax. Sin. 17: 115. f: 8-13. 1979.
Type: China. Xizang: Nyingchi Xian, 4800 m, *Ecol. Off. Tibet Sect. M.7427*. Holotype: IFP.

Dicranum, continued.

D. longisetum W. J. Hooker, 1816.

D. longisetum var. *laxifolium* Brotherus, Trans. Linn. Soc. London, Bot., ser. 2, 6: 88. 1901.

Other use: *Atractylocarpus longisetus* var. *laxifolius* (Brotherus) Pursell, 1973.

D. longisetum var. *meridense* Hampe, Linnaea 20: 73. 1847.

Other use: *Atractylocarpus longisetus* var. *meridensis* (Hampe) Pursell, 1973.

D. maedae Sakurai, J. Jap. Bot. 27: 282. f. 7. 1952.

Other use: *Dicranoloma cylindrothecium* var. *maedae* (Sakurai) Takaki, 1966.

D. mamillosum Gao Chien & Ao Zhi-wen, Bull. Bot. Lab. North-E. Forest. Inst. 7: 98. f. 1: 9-16. 1980.

Type: China. Xizang: Yadans Xian, 4500 m, *Zang 426*. Holotype: IFP.

D. mayrii Brotherus, Hedwigia 38: 207. 1899.

Other use: *Orthodicranum mayrii* (Brotherus) Smirnova, 1969 [1970].

D. montanum Hedwig, 1801.

D. montanum var. *flaccidum* Wulfsberg, Forh. Vidensk.-Selsk. Christiania 1875: 347. 1876.

Other use: *Orthodicranum montanum* fo. *flaccidum* (Wulfsberg) Margadant, 1972.

D. nematosum Brotherus & Geheeb, Oefers. Förh. Finska Vetensk.-Soc. 40: 163. 1898.

Other use: *Dicranoloma brevisetum* fo. *nematosum* (Brotherus & Geheeb) B. C. Tan & T. Koponen, 1983.

D. novae-hollandiae Turton, 1806.

**D. novae-hollandiae* Hornschuch ex Cardot, Bull. Herb. Boissier, sér. 2, 8: 173. f. 6. 1908.

*illegitimate, later homonym (Article 64.1).

Earlier name: *Dicranum novae-hollandiae* Turton, 1806.

Correct name: *Dicranum novaustrinum* Margadant, 1972.

D. novaustrinum Margadant, Lindbergia 1: 127. 1972.

Replaced name: *Dicranum novae-hollandiae* Hornschuch ex Cardot, 1908.

Blocking name: *Dicranum novae-hollandiae* Turton, 1806.

D. ontariense Peterson, Canad. J. Bot. 55: 988. 1977.

Type: Canada. In sylvis umbrosis Canadae superioris vulgare, *Drummond (Musci Amer., Brit. N. Amer., Rocky Mt. 1: 86)*. Holotype: NY; isotypes: FH, NY, DUKE.

D. pallidisetum (J. W. Bailey in Holzinger) Ireland, Bryologist 68: 447. 1965 [1966].

Basionym: *Dicranum fuscescens* fo. *pallidisetum* J. W. Bailey in Holzinger, 1929.

D. perincanum C. Müller, Flora 68: 410. 1885.

Other use: *Campylopus canescens* fo. *perincanus* (C. Müller) Frahm, 1975.

Dicranum, continued.

D. peruvianum H. Robinson, Bryologist 70: 317. f. 1-5. 1967.
Type: Peru. Amazonas: Chachapoyas, summit of Cerros de Calla-Calla, near km 403-407 of Balsas-Leimebamba road, 3400-3500 m, *Wurdack 1778*. Holotype: US.

D. polysetum Swartz, 1801.

D. polysetum fo. *curvulum* (Röll) Margadant, Lindbergia 1: 127. 1972.
Basionym: *Dicranum undulatum* fo. *curvulum* Röll, 1915.

D. polysetum fo. *falcatum* (Loeske in Warnstorf) Margadant, Lindbergia 1: 127. 1972.
Basionym: *Dicranum undulatum* var. *falcatum* Loeske in Warnstorf, 1904.

D. polysetum fo. *majus* (Röll) Margadant, Lindbergia 1: 127. 1972.
Basionym: *Dicranum undulatum* fo. *majus* Röll, 1915.

D. polysetum fo. *rugulosum* (Spindler) Margadant, Lindbergia 1: 127. 1972.
Basionym: *Dicranum undulatum* fo. *rugulosum* Spindler, 1912.

D. polysetum fo. *subfalcatum* (Loeske) Margadant, Lindbergia 1: 127. 1972.
Basionym: *Dicranum undulatum* fo. *subfalcatum* Loeske, 1900.

D. polysetum fo. *umbrosum* (Loeske in Warnstorf) Margadant, Lindbergia 1: 127. 1972.
Basionym: *Dicranum undulatum* fo. *umbrosum* Loeske in Warnstorf, 1904.

D. pseudofalcatum Seppelt, Bryologist 83: 591. 1980 [1981].
Replaced name: *Ditrichum falcifolium* E. B. Bartram & Dixon, 1937.
Blocking name: *Dicranum falcifolium* (Schwägrichen) W. J. Hooker, 1818.

D. pterotoneuron C. Müller, Linnaea 36: 34. 1869.
Other use: *Campylopus umbellatus* var. *pteroneuron* (C. Müller) Frahm, 1984 [14 Jan 1985].

D. ramosum Gao Chien & Ao Zhi-wen, Bull. Bot. Lab. North-E. Forest. Inst. 7: 97. f. 1: 1-8. 1980.
Type: China. Xizang: Yadong Xian, 4700 m, *Zang 799*. Holotype: IFP.

D. schreberianum Hedwig, Sp. Musc. Frond. 144. pl. 33: f. 6-10. 1801.
Other use: *Dicranella schreberiana* (Hedwig) Hilferty ex H. Crum & L. E. Anderson, 1981.

D. scoparium Hedwig, 1801.

D. scoparium fo. *triglavense* Grom, Acta Bot. Croat. 26-27: 248. 1967-68 [1968].
Type: Yugoslavia. In valle septem lacorum montis Triglav, 1600 m, *Wraber 74*. Holotype: herb. Grom.

D. scoparium fo. *wraberi* Grom, Acta Bot. Croat. 26-27: 248. 1967-68 [1968].
Type: Yugoslavia. In planitie alta "Pokljuka" in Alpibus Julicis prope Bohinj, 1700 m, *Wraber 62*. Holotype: herb. Grom.

D. spadiceum J. E. Zetterstedt, 1865.

D. spadiceum var. *subscabrifolium* Schljakov, Bot. Mater. Otd. Sporov. Rast. 7: 242. pl. 3: 1: [g-e]. 1951.
Note: not in Index Muscorum; illustrations' letters transliterated from the Russian.

Dicranum, continued.

D. speciosum J. D. Hooker & Wilson, London J. Bot. 6: 291. pl. 11. 1847.
Other use: *Chorisodontium wallisii* var. *speciosum* (J. D. Hooker & Wilson) Frahm, 1989.

D. spiripes C. Müller, Linnaea 38: 585. 1874.
Other use: *Atractylocarpus spiripes* (C. Müller) F. J. Hermann, 1976.

D. stellatum Bridel, Muscol. Recent. Suppl. 4: 63. 1819 [1818].
Other use: *Leptodontium longicaule* subsp. *stellatum* (Bridel) Sloover, 1987.

D. striatulum Mitten, Trans. Linn. Soc. London, Bot., ser. 2, 3: 156. 1891.
Other use: *Dicranoloma striatulum* (Mitten) Noguchi, 1986.

D. strictulum C. Müller, Linnaea 38: 587. 1874.
Other use: *Atractylocarpus strictulus* (C. Müller) Frahm, 1978, *Campylopus strictulus* (C. Müller) H. Robinson, 1967.

D. tauricum Sapehin, Bot. Jahrb. Syst. 46(Beibl. 105): 10. f. 2: 19. 1911.
Other use: *Orthodicranum tauricum* (Sapehin) Smirnova, 1969 [1970].

D. tubulifolium Ireland, Bryologist 87: 355. f. 1-4. 1984 [1985].
Type: Mexico. Coahuila: Sierra de la Madera, Corte Blanco fork of Charretera Canyon, *Johnston*, 1941. Holotype: FH.

D. undulatum Schrader ex Bridel, 1801.

D. undulatum fo. *curvulum* Röll, Hedwigia 56: 131. 1915.
Other use: *Dicranum polysetum* fo. *curvulum* (Röll) Margadant, 1972.

D. undulatum var. *falcatum* Loeske in Warnstorf, Krypt.-Fl. Brandenburg, Laubm. 2: 149. 1904.
Other use: *Dicranum polysetum* fo. *falcatum* (Loeske in Warnstorf) Margadant, 1972.

D. undulatum fo. *majus* Röll, Hedwigia 56: 131. 1915, "*major*."
Other use: *Dicranum polysetum* fo. *majus* (Röll) Margadant, 1972.

D. undulatum fo. *rugulosum* Spindler, Hedwigia 52: 40. 1912.
Other use: *Dicranum polysetum* fo. *rugulosum* (Spindler) Margadant, 1972.

D. undulatum fo. *subfalcatum* Loeske, Verh. Bot. Vereins Prov. Brandenburg 42: 273. 1900.
Other use: *Dicranum polysetum* fo. *subfalcatum* (Loeske) Margadant, 1972.

D. undulatum fo. *umbrosum* Loeske in Warnstorf, Krypt.-Fl. Brandenburg, Laubm. 2: 149. 1904.
Other use: *Dicranum polysetum* fo. *umbrosum* (Loeske in Warnstorf) Margadant, 1972.

**D. undulatum* Turner, 1804.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Dicranum undulatum* Schrader ex Bridel, 1801.

D. undulatum var. *crispatum* Mikutowicz, Bryoth. Balt. 99. 1910.
Other use: *Dicranum bonjeanii* fo. *crispatum* (Mikutowicz) Smirnova, 1969 [1970].

D. viride (Sullivant & Lesquereux) Lindberg, 1863.

D. viride var. *hakkodense* (Cardot) Takaki, J. Hattori Bot. Lab. 35: 35. 1972.
Basionym: *Dicranum hakkodense* Cardot, 1907.

Dicranum, continued.

D. viridulum Swartz, Monthly Rev. 34: 538. 1801.
Other use: *Fissidens bryoides* fo. *viridulus* (Swartz) R. S. Chopra & S. S. Kumar, 1981.

D. walkeri Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 18. 1859.
Other use: *Bryohumbertia walkeri* (Mitten) Frahm, 1985.

**D. zonanenum* Li Xing-jiang et al., Bryofl. Xizang 52. f. 23: 1-9. 1985.
*invalid, orthographic variant (Article 75.1).
Correct name: *Dicranum conanenum* Gao Chien in Gao Chien & Chang Kung-chu, 1979.

Didymodon Hedwig, 1801.

D. sect. *Asteriscium* (C. Müller) Zander, Cryptog. Bryol. Lichénol. 2: 383. 1981.
Basionym: *Barbula* sect. *Asteriscium* C. Müller, 1879.

D. sect. *Fallaces* (De Notaris) Zander, Phytologia 44: 209. 1979.
Basionym: *Tortula* sect. *Fallaces* De Notaris, 1838.

D. sect. *Graciles* (Milde) K. Saito, J. Hattori Bot. Lab. 39: 501. 1975.
Basionym: *Barbula* sect. *Graciles* Milde, 1869.

D. sect. *Vineales* (Steere in Grout) Zander, Phytologia 41: 24. 1978.
Basionym: *Barbula* sect. *Vineales* Steere in Grout, 1938.

D. acutus (Bridel) K. Saito, J. Hattori Bot. Lab. 39: 519. 1975.
Basionym: *Tortula acuta* Bridel, 1806.

D. acutus var. *ditrichoides* (Brotherus) Zander, Phytologia 41: 20. 1978.
Basionym: *Barbula ditrichoides* Brotherus, 1924.

D. acutus var. *icmadophila* (W. P. Schimper ex C. Müller) Zander, Phytologia 41: 20. 1978.
Basionym: *Barbula icmadophila* W. P. Schimper ex C. Müller, 1849.

D. afrorubellus Brotherus & H. A. Wager in Dixon, Trans. Roy. Soc. South Africa 8: 194. pl. 11: f. 6. 1920.
Other use: *Bryoerythrophyllum afrorubellum* (Brotherus & H. A. Wager in Dixon) Sloover, 1979.

D. angustulus Herzog, Biblioth. Bot. 88: 8. 1920.
Replaced name: *Didymodon angustifolius* Herzog, 1916.
Blocking name: *Didymodon angustifolius* Warnstorf, 1904.
Other use: *Bryoerythrophyllum angustulum* (Herzog) H. Robinson, 1967.

D. asperifolius (Mitten) H. Crum, Steere & L. E. Anderson, Bryologist 67: 163. 1964.
Basionym: *Barbula asperifolia* Mitten, 1859.

D. australasiae (W. J. Hooker & Greville) Zander, Phytologia 41: 21. 1978.
Basionym: *Tortula australasiae* W. J. Hooker & Greville, 1824.

D. australasiae var. *umbrosus* (C. Müller) Zander, Cryptog. Bryol. Lichénol. 2: 400. 1981.
Basionym: *Barbula umbrosa* C. Müller, 1879.

D. brachyphyllus (Sullivant in Whipple) Zander, Phytologia 41: 24. 1978.
Basionym: *Barbula brachyphylla* Sullivant in Whipple, 1856.

Didymodon, continued.

D. canaliculatus Dixon, Ann. Bryol. 3: 55. 1930.
Other use: *Barbula canaliculata* (Dixon) R. S. Chopra, 1975.

D. capillaceus (Hedwig) Weber & D. Mohr, 1803.

D. capillaceus var. *elongatus* Bridel, Bryol. Univ. 1: 819. 1827.
Other use: *Distichium capillaceum* var. *elongatum* (Bridel) Wijk & Margadant, 1965.

D. coffeanus Norris & T. Koponen, Acta Bot. Fenn. 137: 125. f. 14a-g, 18. 1989.
Type: Papua New Guinea. Morobe: headwaters of Sankwep River, Sarawaket southern range, 570 m, *Koponen 32745*. Holotype: H; isotypes: CBG, LAE. Paratypes cited.

D. columbianus F. J. Hermann & E. Lawton, Bull. Torrey Bot. Club 95: 388. f. 1-11. 1968.
Type: U.S.A. Oregon: Wasco Co., along U.S. Route 30, S bank of Columbia River, 6 miles NE of The Dalles, *Hermann 18751*. Holotype: US; isotypes: BM, C, CANM, DUKE, G, MICH, NY, P [sic, PC], UBC, W, WTU. Other indicated distribution: U.S.A. (Washington).
Other use: *Bryoerythrophyllum columbianum* (F. J. Hermann & E. Lawton) Zander, 1978 [1979], *Barbula columbiana* (F. J. Hermann & E. Lawton) F. J. Hermann & E. Lawton, 1972 [1973].

D. constrictus (Mitten) K. Saito, J. Hattori Bot. Lab. 39: 514. 1975.
Basionym: *Barbula constricta* Mitten, 1859.

D. constrictus var. *flexicuspis* (Chen Pan-chieh) K. Saito, J. Hattori Bot. Lab. 39: 516. 1975.
Basionym: *Barbula constricta* var. *flexicuspis* Chen Pan-chieh, 1941.

D. cylindricus (Hedwig) Wahlenberg, 1826.

D. cylindricus var. *gemmiparus* W. P. Schimper, Syn. Musc. Eur. (ed. 2) 2: 165. 1876, "*gemmipara*."
Other use: *Oxystegus tenuirostris* var. *gemmiparus* (W. P. Schimper) Zander, 1978.

D. dixonii Wadhwa, Curr. Sci. 32: 483. 1963.
Replaced name: *Didymodon obtusifolius* Cardot ex Dixon & Potier de la Varde, 1927.
Blocking name: *Didymodon obtusifolius* Schkuhr, 1828.
Other use: *Barbula dixonii* R. S. Chopra, 1975.

D. erosodenticulatus (C. Müller) K. Saito, J. Hattori Bot. Lab. 39: 504. 1975.
Basionym: *Barbula erosodenticulata* C. Müller, 1896.

D. fallax (Hedwig) Zander, Phytologia 41: 28. 1978.
Basionym: *Barbula fallax* Hedwig, 1801.

D. fallax var. *brevifolius* (Dickson ex Withering) Ochyra, Fragm. Florist. Geobot. 28: 449. 1982 [1984].
Basionym: *Bryum brevifolium* Dickson ex Withering, 1801.

D. fallax var. *reflexus* (Bridel) Zander, Bryologist 83: 230. 1980.
Basionym: *Tortula reflexa* Bridel, 1806.

Didymodon, continued.

D. ferrugineus (W. P. Schimper ex Bescherelle) M. O. Hill, J. Bryol. 11: 599. 1981 [1982].
Basionym: *Barbula ferruginea* W. P. Schimper ex Bescherelle, 1872.

D. flexicaulis (Schwägrichen) Röhling, 1813.

D. flexicaulis var. *sterilis* De Notaris, Syllab. Musc. 197. 1838.
Other use: *Ditrichum flexicaule* fo. *sterile* (De Notaris) Smirnova, 1969 [1970].

D. humboldtii (Herzog) E. Hegewald & P. Hegewald, Nova Hedwigia 28: 747. 1977.
Basionym: *Barbula humboldtii* Herzog, 1916.

D. icmadophila (W. P. Schimper ex C. Müller) K. Saito, J. Hattori Bot. Lab. 39: 519. 1975, "*icmadophyllus*."
Basionym: *Barbula icmadophila* W. P. Schimper ex C. Müller, 1849.

D. insulanus (De Notaris) M. O. Hill, J. Bryol. 11: 599. 1981 [1982].
Basionym: *Tortula insulana* De Notaris, 1838.

D. japonicus (Brotherus) K. Saito, J. Hattori Bot. Lab. 39: 508. 1975.
Basionym: *Molendoa japonica* Brotherus, 1921.

D. johansenii (R. S. Williams) H. Crum, Canad. Field-Naturalist 83: 157. 1969.
Basionym: *Barbula johansenii* R. S. Williams, 1921.

D. laevigatus (Mitten) Zander, Phytologia 41: 29. 1978.
Basionym: *Tortula laevigata* Mitten, 1869.

D. leskeoides K. Saito, J. Hattori Bot. Lab. 39: 508. f. 51: 1-12. 1975.
Type: Japan [Honshu]. Saitama: Chichibu, Otaki-mura, Imonoki-dokke, *Nagano 6587*. Holotype: TNS.

D. ligulifolius G. Roth in Zodda, Ann. Bot. (Rome) 6: 245. pl. 2: f. 2. 1907.
Other use: *Didymodon tophaceus* fo. *ligulifolius* (G. Roth in Zodda) Margadant, 1972.

D. lingulatus (Rehmann ex Sim) Magill in Magill & Schelpe, Mem. Bot. Surv. South Africa 43: 5. 1979.
Basionym: *Gymnostomum lingulatum* Rehmann ex Sim, 1926.

D. luehmannii (Brotherus & Geheeb) Catcheside, Mosses S. Australia 175. 1980, "*luehmanni*."
Basionym: *Barbula luehmannii* Brotherus & Geheeb, 1895.

D. luridus Hornschuch in Sprengel, Syst. Veg. Fl. Peruv. Chil. 4(1): 173. 1827.
Other use: *Didymodon vinealis* var. *luridus* (Hornschuch in Sprengel) Zander, 1981.

D. mamillosus (Crundwell) M. O. Hill, J. Bryol. 11: 599. 1981 [1982].
Basionym: *Barbula mamillosa* Crundwell, 1976.

D. maximus (Syed & Crundwell) M. O. Hill, J. Bryol. 11: 599. 1981 [1982].
Basionym: *Barbula maxima* Syed & Crundwell, 1973 [1974].

D. medius Duby in Moritzi, Syst. Verz. 134. 1846, "*medium*."
Other use: *Campylopodium medium* (Duby in Moritzi) Giese & Frahm, 1985.

Didymodon, continued.

D. mexicanus Bescherelle, 1872.

D. mexicanus var. *subulatus* Thériot & E. B. Bartram ex E. B. Bartram, Bryologist 29: 1. pl. 1. 1926.

Other use: *Didymodon rigidulus* var. *subulatus* (Thériot & E. B. Bartram ex E. B. Bartram) Zander, 1981.

D. michiganensis (Steere in Grout) K. Saito, J. Hattori Bot. Lab. 39: 517. 1975.

Basionym: *Barbula michiganensis* Steere in Grout, 1938.

D. microstomus Dixon & Badhwar, Rec. Bot. Surv. India 12: 169. 1938.

Other use: *Barbula microstoma* (Dixon & Badhwar) R. S. Chopra, 1977.

D. mittenii Gangulee, Nova Hedwigia 8: 149. 1964.

Replaced name: *Didymodon obscurus* (Mitten) Dixon, 1930.

Blocking name: *Didymodon obscurus* Kaulfuss in Sturm, 1818.

D. nicholsonii Culmann, Rev. Bryol. 34: 100. f. 1-9. 1907, "*nicholsoni*."

Other use: *Didymodon vinealis* var. *nicholsonii* (Culmann) Zander, 1981.

D. nigrescens (Mitten) K. Saito, J. Hattori Bot. Lab. 39: 510. 1975.

Basionym: *Barbula nigrescens* Mitten, 1859.

**D. obscurus* (Mitten) Dixon, Ann. Bryol. 3: 55. 1930.

*illegitimate, later homonym (Article 64.1).

Basionym: *Barbula obscura* Mitten, 1859.

Earlier name: *Didymodon obscurus* Kaulfuss in Sturm, 1818.

Correct name: *Didymodon mittenii* Gangulee, 1964.

**D. obtusifolius* Cardot ex Dixon & Potier de la Varde, Arch. Bot. Bull. Mens. 1(3): 167. pl. 3: f. 6. 1927.

*illegitimate, later homonym (Article 64.1).

Earlier name: *Didymodon obtusifolius* Schkuhr, 1828.

Correct name: *Didymodon dixonii* Wadhwa, 1963.

D. occidentalis Zander, Phytologia 41: 26. 1978.

Replaced name: *Barbula rubiginosa* Mitten, 1864.

Blocking name: *Didymodon rubiginosus* (C. Müller) Brotherus, 1902.

D. percarinatus Dixon & Sakurai in Sakurai, Bot. Mag. (Tokyo) 50: 516. 1936.

Other use: *Grimmia percarinata* (Dixon & Sakurai in Sakurai) Noguchi ex Deguchi, 1978 [1979].

D. recurvirostris (Hedwig) Jennings, 1913.

D. recurvirostris var. *obtusifolius* J. Fröhlich, Mitt. Thüring. Bot. Ges. 1(2-3): 61. 1955.

Note: not in Index Muscorum.

D. reedii H. Robinson, Bryologist 70: 323. f. 1-11. 1967.

Type: U.S.A. Maryland: Washington Co., Deneen Rd. near Bradys Straight, 1 mile SW of Round Top Mt., along Potomac River, *Reed 74629*. Holotype: US; isotype: herb. Reed.

D. rigidicaulis (C. Müller) K. Saito, J. Hattori Bot. Lab. 39: 502. 1975.

Basionym: *Barbula rigidicaulis* C. Müller, 1897.

Didymodon, continued.

D. rigidulus Hedwig, 1801, "*rigidulum*."

D. rigidulus var. *acutus* Bizot, Acta Bot. Acad. Sci. Hung. 18: 21. 1973.
Type: Tanzania. Mt. Mbeya, Mbeya (Tanzania sud), 1850 m, *Balazs 99*. Holotype: DI; isotype: EGR.

D. rigidulus var. *gracilis* (Schleicher ex W. J. Hooker & Greville) Zander, Cryptog. Bryol. Lichénol. 2: 393. 1981.
Basionym: *Tortula gracilis* Schleicher ex W. J. Hooker & Greville, 1824.

D. rigidulus var. *icmadophila* (W. P. Schimper ex C. Müller) Zander, Cryptog. Bryol. Lichénol. 2: 394. 1981.
Basionym: *Barbula icmadophila* W. P. Schimper ex C. Müller, 1849.

D. rigidulus var. *subulatus* (Thériot & E. B. Bartram ex E. B. Bartram) Zander, Cryptog. Bryol. Lichénol. 2: 395. 1981.
Basionym: *Didymodon mexicanus* var. *subulatus* Thériot & E. B. Bartram ex E. B. Bartram, 1926.

D. rivicola (Brotherus) Zander in T. Koponen et al., Ann. Bot. Fenn. 20: 222. 1983.
Basionym: *Barbula rivicola* Brotherus, 1929.

**D. rubellus* Bruch & W. P. Schimper in B.S.G., 1846.
*illegitimate, type of earlier name included (Article 63.1).

D. rubellus var. *angustifolius* Potier de la Varde, Bull. Soc. Bot. France 87: 355. 1940.
Other use: *Bryoerythrophyllum recurvirostre* var. *angustifolium* (Potier de la Varde) Wijk & Margadant, 1968.

D. rubellus var. *dentatus* W. P. Schimper, Syn. Musc. Eur. 131. 1860.
Other use: *Bryoerythrophyllum recurvirostre* var. *dentatum* (W. P. Schimper) H. Crum, Steere & L. E. Anderson, 1964.

D. rufus Lorentz in Rabenhorst, 1863.

D. rufus var. *gorodkovii* A. L. Abramova & I. I. Abramov in I. I. Abramov, Trudy Arktic. Antarktic. Naucno-Issl. Inst. 224: 220. f. 2-3. 1963.
Type: U.S.S.R. Kotel'nyj Island., *Kruininym*, 1956. Herbarium not specified by authors.
Other use: *Barbula asperifolia* var. *gorodkovii* (A. L. Abramova & I. I. Abramov in I. I. Abramov) Savicz-Ljubitskaya, 1969 [1970].

D. strictifolius Dixon & Potier de la Varde, Arch. Bot. Bull. Mens. 1(3): 167. 1927.
Other use: *Barbula strictifolia* (Dixon & Potier de la Varde) R. S. Chopra, 1975.

D. strictorubellus Dixon, Anniv. Vol. Bot. Gard. Calcutta 180. 1942.
Original placement: subgen. *Erythrophyllum*.
Note: not in Index Muscorum.

D. subandreaeoides (Kindberg) Zander, Phytologia 41: 23. 1978.
Basionym: *Barbula subandreaeoides* Kindberg, 1905.

D. subtorquatus (C. Müller & Hampe) Catcheside, Mosses S. Australia 174. 1980.
Basionym: *Barbula subtorquata* C. Müller & Hampe, 1853.

Didymodon, continued.

D. subtriquetrus H. Robinson, Bryologist 70: 319. f. 12-17. 1967.
Type: Peru. Cuzco: above Urubamba River near Macchu Picchu, ca. 7000 feet, *Worthley*, 1962. Holotype: US.

D. tectorum (C. Müller) K. Saito, J. Hattori Bot. Lab. 39: 517. 1975.
Basionym: *Barbula tectorum* C. Müller, 1896.

D. tisserantii Potier de la Varde, Arch. Bot. Bull. Mens. 3: 7. pl. 2: 8. 1929.
Other use: *Hydrogonium tisserantii* (Potier de la Varde) Schultze-Motel, 1975.

D. tomaculosus (Blockeel) Corley in Corley et al., J. Bryol. 11: 649. 1981 [1982].
Basionym: *Barbula tomaculosa* Blockeel, 1981 [1982].

D. tophaceus (Bridel) Lisa, 1837.

D. tophaceus fo. *anatinus* (Hammerschmid) Margadant, Lindbergia 1: 127. 1972.
Basionym: *Didymodon tophaceus* var. *anatinus* Hammerschmid, 1906.

D. tophaceus var. *anatinus* Hammerschmid, Mitt. Bayer. Bot. Ges. 1: 509. 1906.
Other use: *Didymodon tophaceus* fo. *anatinus* (Hammerschmid) Margadant, 1972.

D. tophaceus fo. *humilis* (W. P. Schimper) Margadant, Lindbergia 1: 128. 1972.
Basionym: *Trichostomum tophaceum* var. *humile* W. P. Schimper, 1856.
Note: valid, error of bibliographic citation of basionym (Article 33.2), "*Didymodon tophaceus* Hedw. var. *humilis* Schimp."

D. tophaceus fo. *ligulifolius* (G. Roth in Zodda) Margadant, Lindbergia 1: 128. 1972.
Basionym: *Didymodon ligulifolius* G. Roth in Zodda, 1907.

D. torquatus (Taylor) Catcheside, Mosses S. Australia 174. 1980.
Basionym: *Barbula torquata* Taylor, 1846.

D. umbrosus (C. Müller) Zander, Phytologia 41: 22. 1978.
Basionym: *Barbula umbrosa* C. Müller, 1879.

D. vinealis (Bridel) Zander, Phytologia 41: 25. 1978.
Basionym: *Barbula vinealis* Bridel, 1827.

D. vinealis var. *brachyphyllus* (Sullivant in Whipple) Zander, Cryptog. Bryol. Lichénol. 2: 411. 1981.
Basionym: *Barbula brachyphylla* Sullivant in Whipple, 1856.

D. vinealis var. *flaccidus* (Bruch & W. P. Schimper) Zander, Phytologia 41: 25. 1978.
Basionym: *Barbula vinealis* var. *flaccida* Bruch & W. P. Schimper, 1842.

D. vinealis var. *luridus* (Hornschuch in Sprengel) Zander, Cryptog. Bryol. Lichénol. 2: 412. 1981.
Basionym: *Didymodon luridus* Hornschuch in Sprengel, 1827.

D. vinealis var. *nicholsonii* (Culmann) Zander, Cryptog. Bryol. Lichénol. 2: 416. 1981.
Basionym: *Didymodon nicholsonii* Culmann, 1907.

D. vinealis var. *rubiginosus* (Mitten) Zander, Cryptog. Bryol. Lichénol. 2: 417. 1981.
Basionym: *Barbula rubiginosa* Mitten, 1864.

Didymodon, continued.
D. wisselii (Dixon) Norris & T. Koponen, Acta Bot. Fenn. 137: 127. 1989.
Basionym: *Barbula wisselii* Dixon, 1943.
D. xanthocarpus (C. Müller) Magill in Magill & Schelpe, Mem. Bot. Surv. South Africa 43: 5. 1979.
Basionym: *Barbula xanthocarpa* C. Müller, 1843.

+**Diettertia** J. T. Brown & Robison, Bot. Gaz. (Crawfordsville) 135: 170. 1974.
Type: *D. montanensis* J. T. Brown & Robison, holotype.
Original placement: not indicated by authors.
+*D. montanensis* J. T. Brown & Robison, Bot. Gaz. (Crawfordsville) 135: 170. f. 1-6. 1974.
Type: U.S.A. Montana: Cascade Co., 0.6 mile SE Fifteenth Str. Bridge, Great Falls, Lower Cretaceous Shales, *281*. Holotype: Univ. Montana Paleontol. Coll.

Dimerodontium Mitten, 1869.
D. kenyae Tosco & Piovano, Allionia 4: 160. f. 32-34. 1956.
Note: not in Index Muscorum.

Diphyscium D. Mohr, 1803.
D. calcareum Dixon, J. Siam Soc., Nat. Hist. Suppl. 9(1): 50. 1932.
Other use: *Hymenostyliella calcarea* (Dixon) Iwatsuki, 1976.
D. chiapense Norris, Bryologist 84: 375. f. 1-12. 1981.
Type: Mexico. Chiapas: N of Mapastepec, above 1830 m, *Sharp 4596*. Holotype: TENN.
D. domingense (Bridel) Buck & Steere, Moscosoa 2: 34. 1983.
Basionym: *Diphyscium foliosum* var. *domingense* Bridel, 1827.
D. foliosum (Hedwig) D. Mohr, 1803.
D. foliosum var. *domingense* Bridel, Bryol. Univ. 2: 740. 1827.
Other use: *Diphyscium domingense* (Bridel) Buck & Steere, 1983.
D. macrophyllum Wang Chung K'uei & Lin Shan-Hsiung, Hikobia 7: 21. f. 1-25. 1975.
Type: China. Taiwan: Ilan, Mt. Taiping, *Lin*, 1972. Holotype: TUNGH.
D. malayense Manuel, J. Bryol. 11: 246. f. 1. 1980.
Type: Malaysia [Malay Peninsula]. Perak: Maxwell Hill, Gunong Hijau Trail, 1035-1500 m, *Manuel 3243*. Holotype: KLU; isotypes: PAC, herb. Manuel.
D. rotundatifolium Wang Chung K'uei & Lin Shan-Hsiung, Ann. Missouri Bot. Gard. 61: 526. f. 1-34. 1974.
Type: China. Taiwan: Nantou, Luku Hsiang, *Lin*, 1971. Holotype: TUNGH.
D. rupestre Dozy & Molkenboer, 1854.
D. rupestre var. *elmeri* (Brotherus) Iwatsuki & B. C. Tan, Kalikasan 9: 278. 1980.
Basionym: *Webera elmeri* Brotherus, 1909.

Diphyscium, continued.

D. suzukii Iwatsuki, J. Hattori Bot. Lab. 40: 143. f. 3-4. 1976.
Type: Japan [Honshu]. Shiznoka: Kakegawa-shi, Ganshoji, Honzawa, 150 m, *Suzuki*, 1975. Holotype: NICH.

D. unipapillosum Deguchi, J. Jap. Bot. 59(4): 97. f. 1. 1984.
Type: Japan [Shikoku]. Kochi: Kamiyashiki, Nakamura-shi, 380 m, *Deguchi 24901*. Holotype: HIRO; isotypes: KOCH, TNS.

Diplostichum Montagne, 1845.

D. jamesonii (Taylor) H. Robinson, Smithsonian Contr. Bot. 27: 37. 1975.
Basionym: *Cymbaria jamesonii* Taylor, 1848.

Distichium Bruch & W. P. Schimper in B.S.G., 1846, conserved name.

D. brevisetum Gao Chien in Gao Chien, Zhang Man-xiang & Cao Tong, Acta Bot. Yunnan. 3: 391. f. 2: 15-22. 1981.
Type: China. Xizang: Districtus Lhunze Xian, 5000 m, *Zang 886*. Holotype: IFP.

D. bryoxiphioidium Gao Chien in Gao Chien, Zhang Man-xiang & Cao Tong, Acta Bot. Yunnan. 3: 392. f. 2: 1-14. 1981.
Type: China. Xizang: Districtus Tingri Xian, 5540 m, *Lang 5308*. Holotype: IFP; isotype: PE.

D. capillaceum (Hedwig) Bruch & W. P. Schimper in B.S.G., 1846.

D. capillaceum var. *curvatum* Flowers, Bryologist 76: 289. 1973.
Type: U.S.A. Utah: Summit Co., Uintah Mts., Black's Fork, 9300 feet, *Flowers 3310*. Holotype: UT.

D. capillaceum var. *elongatum* (Bridel) Wijk & Margadant, Taxon 14: 196. 1965.
Basionym: *Didymodon capillaceus* var. *elongatus* Bridel, 1827.

D. macrosporum Gao Chien in Li Xing-jiang et al., Bryofl. Xizang 17. f. 8: 1-6. 1985.
Type: China. Xizang: Jilung, *Zhang 801*. Holotype: ISPH.

Distichophyllidium Fleischer, 1908.

D. antarense Zanten, Nova Guinea, Bot. 10(16): 310. pl. 27: f. 1. 1964.
Type: Indonesia [New Guinea]. Irian Barat: Mt. Antares, Camp 39a, 1500 m, *Zanten 700*. Holotype: L; isotype: GRO.

D. rhizophorum Fleischer, Musci Buitenzorg 3: 970. f. 167: 1-5. 1908.
Other use: *Distichophyllum rhizophorum* (Fleischer) Crosby, 1974, *Metadistichophyllum rhizophorum* (Fleischer) Noguchi & Iwatsuki, 1972.

Distichophyllum Dozy & Molkenboer, 1846.

D. albomarginatum Norris & T. Koponen, Ann. Bot. Fenn. 22: 377. f. 4. 1985.
Type: Papua New Guinea. East Sepik: Frieda River, Frieda airstrip, 50-150 m, *Koponen 36143*. Holotype: H; isotypes: HSC, LAE. Paratypes cited.

D. decolyi Gangulee, Mosses E. India 6: 1488. f. 744. 1977.
Type: India. Chuttakpur, Kurseong, *Decoly & Schaul s.n.* (Bryoth. Levier 2542). Holotype: BM.

Distichophyllum, continued.

D. duongii Ninh, Acta Bot. Acad. Sci. Hung. 27: 154. pl. 2: 4-6, pl. 3: 1-12. 1981.
Type: Vietnam. Tamdao, tropical lower montane evergreen forest, 1100 m, *Ninh*, 1968. Holotype: HNU.

D. freycinetii (Schwägrichen) Mitten in Seemann, 1873.

D. freycinetii var. *crasse-turgescens* (C. Müller) E. B. Bartram, Bernice P. Bishop Mus. Bull. 101: 192. 1933.
Basionym: *Mniadelphus freycinetii* var. *crasse-turgescens* C. Müller, 1896.
Note: redundant combination in Hoe, Lyonia 1: 19. 1974.

D. fuegianum Matteri, Fl. Criptog. Tierra del Fuego 14(9): 20. pl. 4. 1975.
Type: Argentina. Depto. Ushuaia, Paso Garibaldi, *Matteri 767*. Holotype: BA.

D. grandifolium Matteri, Nova Hedwigia 26: 667. pl. 6. 1975 [1976].
Type: Chile. Llanaquihue: Peulla, Cascada de las Novios, *Matteri 366*. Holotype: BA.

D. hattorii Noguchi & Iwatsuki, J. Hattori Bot. Lab. 36: 472. f. 3: a-f. 1972.
Type: Malaysia [Borneo]. Sabah: Mt. Kinabalu, between Kambaranga Radio Station and water falls, 2140-2000 m, *Iwatsuki 679a*. Holotype: NICH.

D. iwatsukii Noguchi in Iwatsuki & Noguchi, J. Hattori Bot. Lab. 36: 472. f. 5: k-o. 1972.
Type: Malaysia [Borneo]. Sabah: Mt. Kinabalu, between Tenompock Pass and Kambaranga Radio Station, 1400-1900 m, *Iwatsuki 387*. Holotype: NICH.

**D. japonicum* Noguchi, J. Hattori Bot. Lab. 30: 293. 1967.
*invalid, no Latin description (Article 36.1).

**D. japonicum* var. *minus* Noguchi, J. Hattori Bot. Lab. 30: 293. 1967.
*invalid, no Latin description (Article 36.1).

D. kinabaluense Noguchi & Iwatsuki, J. Hattori Bot. Lab. 36: 374. f. 4: e-l. 1972.
Type: Malaysia [Borneo]. Sabah: Mt. Silam: 900-1000 m, *Iwatsuki 5512*. Holotype: NICH. Paratypes cited.

D. laxirete Noguchi & Iwatsuki, J. Hattori Bot. Lab. 36: 475. f. 4: a-d. 1972.
Type: Malaysia [Borneo]. Sabah: Mt. Kinabalu, Ulu Liwagu, 2500 m, *Mizutani 3604*. Holotype: NICH. Paratype cited.

D. leskeodontoides Norris & T. Koponen, Ann. Bot. Fenn. 22: 378. f. 5. 1985.
Type: Papua New Guinea. West Sepik: Frieda River, Table Mtn., 12 km NWW [sic] of Frieda Base Camp (helipad M 48), 1050 m, *Koponen 35869*. Holotype: H; isotypes: HSC, LAE. Paratypes cited.

D. malayense Damanhuri & Mohamed, J. Bryol. 14: 327. f. 1. 1986.
Type: Malaysia [Malay Peninsula]. Pahang: Genting Highlands, 960 m, *Damanhuri 2723*. Holotype: KLU; isotypes: MO, UKMB. Paratypes cited.

D. pseudomalayense Chiang Tzen-yuh & Kuo Chen-meng, Taiwania 34: 89. f. 6: m-u. 1989.
Type: China. Taiwan: Pingtung Hsien, Laufoshan, 600, *Chiang 12811*. Holotype: TAI.

D. rakotomariae Crosby, Rev. Bryol. Lichénol. 42: 713. f. 2-4. 1976.
Type: Madagascar. Diego Suarez: Montagne d'Ambre, 900-1100 m, *Crosby & Crosby 6883*. Holotype: MO; isotypes: PC, TAN.
Original placement: sect. *Mniadelphus*.

Distichophyllum, continued.

D. rhizophorum (Fleischer) Crosby, J. Hattori Bot. Lab. 38: 140. 1974.
Basionym: *Distichophyllidium rhizophorum* Fleischer, 1908.

D. rotundatum Noguchi & Iwatsuki, J. Hattori Bot. Lab. 36: 476. f. 3: g-l. 1972.
Type: Malaysia [Borneo]. Sabah: Mt. Kinabalu, Hot Spring, Poring, *Iwatsuki 1711a*. Holotype: NICH. Paratype cited.

D. subcarinatum Noguchi & Iwatsuki, J. Hattori Bot. Lab. 36: 476. f. 5: f-j. 1972.
Type: Malaysia [Borneo]. Sabah: Mt. Kinabalu, Ulu Liwagu, *Iwatsuki 1192*. Holotype: NICH.

D. subcuspidatum Noguchi & Iwatsuki, J. Hattori Bot. Lab. 36: 476. f. 5: a-e. 1972.
Type: Malaysia [Borneo]. Sabah: Mt. Kinabalu, below Paka Cave, *Iwatsuki 838*. Holotype: NICH. Paratype cited.

D. submersum Matteri, Fl. Criptog. Tierra del Fuego 14(9): 24. pl. 6. 1975.
Type: Argentina. Depto. Ushuaia, Isla de los Estados, Cascada del Arroyo Capitan Fernandez, *Matteri s.n.* Holotype: BA.

D. theriotianum Matteri, Nova Hedwigia 26: 679. pl. 16. 1975 [1976].
Type: Chile. Aysen: Puyuhuapi, Canal Jacaf, *Schwabe 5*. Holotype: JE.

D. ulukahiense Damanhuri & Mohamed, J. Bryol. 14: 329. f. 2. 1986.
Type: Malaysia [Malay Peninsula]. Pahang: Gunung Ulu Kali, 1750 m, *Damanhuri 2645*. Holotype: KLU; isotypes: MO, UKMB.

+**Ditrichites** Kuc, Canad. J. Earth Sci. 11: 411. 1974.
Type: *D. fylesii* Kuc, holotype.
Original placement: Ditrichaceae?

+*D. fylesii* Kuc, Canad. J. Earth Sci. 11: 411. f. 3. 1974.
Type: Canada. British Columbia: 9 km N of Princeton, Allenby Formation (Mid-Eocene), *Hills GSC-34741*. Holotype: Natl. Type Fossil Coll., Geol. Surv. Canada.

Ditrichum Hampe, 1867, conserved name.

D. atlanticum (Thériot & Trabut) Frahm & Seppelt, Cryptog. Bryol. Lichénol. 8: 150. 1987.
Basionym: *Maireola atlantica* Thériot & Trabut, 1927.

D. austrogeorgicum (Cardot) Seppelt, Lindbergia 6: 128. 1980.
Basionym: *Pseudodistichium austrogeorgicum* Cardot, 1905.

D. austrogeorgicum var. *longifolium* (Brotherus) Seppelt, Lindbergia 6: 128. 1980.
Basionym: *Pseudodistichium austrogeorgicum* var. *longifolium* Brotherus, 1923.

D. brotherusii (R. Brown ter) Seppelt, Lindbergia 6: 128. 1980.
Basionym: *Weissia brotherusii* R. Brown ter, 1898.

D. cornubicum Paton, J. Bryol. 9: 171. f. 1. 1976.
Type: United Kingdom. England: W. Cornwall, W of Lanner, near Redruth, *Paton*, 1963. Holotype: BM.

Ditrichum, continued.
D. falcifolium E. B. Bartram & Dixon, Bot. Not. 1937: 66. f. 2. 1937.
Other use: *Dicranum pseudofalcatum* Seppelt, 1980 [1981].
D. flexicaule (Schwägrichen) Hampe, 1867.
D. flexicaule fo. *sterile* (De Notaris) Smirnova, Novosti Sist. Niz. Rast. 6: 255. 1969 [1970].
Basionym: *Didymodon flexicaulis* var. *sterilis* De Notaris, 1838.
**D. furo-aureum* (Hampe) J. H. Willis ex Seppelt, J. Hattori Bot. Lab. 51: 111. 1982.
*invalid, orthographic variant (Article 75.1).
Correct name: *Ditrichum rufoaureum* (Hampe) J. H. Willis, 1955.
D. immersum Zanten in Zinderen Bakker, Winterbottom & R. A. Dyer, Marion & Prince Edward Islands, Musci 184. f. 3: 1. 1971.
Type: Marion Island, *Challenger Expedition 798*. Holotype: NY.
D. lineare (Swartz) Lindberg, 1872.
D. lineare fo. *subdenticulatum* (Röll) Margadant, Lindbergia 1: 128. 1972.
Basionym: *Ditrichum vaginans* fo. *subdenticulatum* Röll, 1915.
D. plumbicola Crundwell, J. Bryol. 9: 167. f. 1. 1976.
Type: United Kingdom. England: Northumberland, Allenheads, 460 m, *Lobley*, 1967. Holotype: GL; isotype: S.
D. vaginans (Sullivant) Hampe, 1867.
D. vaginans fo. *subdenticulatum* Röll, Hedwigia 56: 114. 1915, "*subdenticulata*."
Other use: *Ditrichum lineare* fo. *subdenticulatum* (Röll) Margadant, 1972.
D. venezuelanum Griffin, Mem. New York Bot. Gard. 45: 296. f. 1-11. 1987.
Type: Venezuela. Trujillo: paramo de Guirigay, *Griffin & Lopez F. PV-1526*. Holotype: MERF; isotypes: FLAS, NY, TRH. Paratype cited.

Dixonia Horikawa & Ando in Kira & Umesao, Nat. Life Southe. Asia 3: 23. 1964.
Type: *Camptochaete thamnioides* Brotherus & Dixon, *D. thamnioides* (Brotherus & Dixon) Horikawa & Ando, holotype.
Original placement: Lembophyllaceae.
D. thamnioides (Brotherus & Dixon) Horikawa & Ando in Kira & Umesao, Nat. & Life Southe. Asia 3: 23. 1964.
Basionym: *Camptochaete thamnioides* Brotherus & Dixon, 1915.

***Dolichotheca** Lindberg, Not. Sallsk. Fauna Fl. Fenn. Forh. 13: 417. 1874.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Dolichotheca* Cassini, 1827.
Correct name: *Sharpiella* Iwatsuki, 1965.
D. spinulosa Iwatsuki, J. Hattori Bot. Lab. 26: 69. 1963.
Replaced name: *Hypnum spinulosum* Sullivant & Lesquereux, 1859.
Blocking name: *Hypnum spinulosum* Hedwig, 1801.
Other use: *Sharpiella spinulosa* (Iwatsuki) Iwatsuki, 1965.
Note: new name, based on adoption of earlier epithet (Article 72.Note 1).

Dolotortula Zander, Phytologia 65: 425. 1989.
Type: *Barbula mniifolia* Sullivant, *D. mniifolia* (Sullivant) Zander, holotype.
Original placement: Pottiaceae.
D. mniifolia (Sullivant) Zander, Phytologia 65: 426. 1989.
Basionym: *Barbula mniifolia* Sullivant, 1861.

Donnellia Austin, 1880.
D. commutata (C. Müller) Buck, Bryologist 91: 134. 1988.
Basionym: *Neckera commutata* C. Müller, 1857.
D. lagenifera (Mitten) Buck, Bryologist 91: 134. 1988.
Basionym: *Meiothecium lageniferum* Mitten, 1869.
D. lageniformis (C. Müller) Buck, Bryologist 91: 134. 1988.
Basionym: *Aptychus lageniformis* C. Müller, 1898.
D. laxiuscula (Cardot) Buck, Bryologist 91: 134. 1988.
Basionym: *Pterogoniella laxiuscula* Cardot, 1909.
D. longidens (Ångström) Buck, Bryologist 91: 134. 1988.
Basionym: *Potamium longidens* Ångström, 1876.
D. usambarica (Brotherus ex Paris) Buck, Bryologist 91: 134. 1988.
Basionym: *Pterogoniella usambarica* Brotherus ex Paris, 1898.
Note: valid, error of bibliographic citation of basionym (Article 33.2), "*Meiothecium usambaricum* Brotherus."

Donrichardsia H. Crum & L. E. Anderson, Fieldiana, Bot., n.s. 1: 7. 1979.
Type: *Hygroamblystegium macroneuron* Grout, *D. macroneuron* (Grout) H. Crum & L. E. Anderson, holotype.
Original placement: Amblystegiaceae.
D. macroneuron (Grout) H. Crum & L. E. Anderson, Fieldiana, Bot., n.s. 1: 7. 1979.
Basionym: *Hygroamblystegium macroneuron* Grout, 1933.

Drepanocladus (C. Müller) G. Roth, 1899.
D. aduncus (Hedwig) Warnstorf, 1903.
D. aduncus var. *clavatus* (Ruthe ex Warnstorf) Wijk & Margadant, Taxon 14: 197. 1965.
Basionym: *Hypnum aduncum* var. *clavatum* Ruthe ex Warnstorf, 1885.
D. aduncus var. *venturii* (Sanio) Wijk & Margadant, Taxon 14: 197. 1965.
Basionym: *Hypnum aduncum* var. *venturii* Sanio, 1885.
D. capillifolius (Warnstorf) Warnstorf, 1903.
D. capillifolius var. *strictus* Grout, N. Amer. Musci Pleurocarpi 459. 1945.
Note: not in Index Muscorum.
D. crassicostatus Janssens, Bryologist 86: 45. f. 1, 3-6, 11-16. 1983.
Type: Canada. British Columbia: Crown Lake, near Pavilion Lake, Marble Canyon, 50°50' N, 121°50' W, *Schofield 38890*. Holotype: UBC; isotypes: ALTA, CANM, COLO, DUKE.
Other use: *Warnstorfia crassicostata* (Janssens) H. Crum & L. E. Anderson, 1989.

Drepanocladus, continued.

D. exannulatus (W. P. Schimper in B.S.G.) Warnstorf, 1903.

D. exannulatus fo. *pseudoorthophyllus* Tosco in Sarfatti, Webbia 20: 411. 1965.
Type: Italy. Calabria: Sila, Dintorni di Camigliatello, *Sarfatti s.n.* Holotype: FI.

D. exannulatus fo. *pseudotrichophyllus* F. J. Hermann, Bryologist 80: 340. 1977.
Type: U.S.A. Colorado: Lake Co., Independence Pass, 16 km W of Twin Lakes, 3140 m, *Hermann 24148*. Holotype: US; isotypes: B, BC, BM, C, CA, COLO, FH, G, GL, H, HSC, NY, PC, RM, TENN, WTU.

D. fluitans (Hedwig) Warnstorf, 1903.

D. fluitans var. *kutcharokensis* Kanda, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 16: 58. f. 37, 38: 1-10. 1976 [1977].
Type: Japan [Hokkaido]. NK-55-31, Kutcharoko, Lake Kutcharoko, 50 m, *Ando 2767*. Holotype: HIRO.

D. fluitans var. *uncatus* H. Crum, Steere & L. E. Anderson, Bryologist 68: 432. 1965 [1966].
Replaced name: *Hypnum fluitans* var. *falcatum* W. P. Schimper in B.S.G., 1854.
Blocking name: *Hypnum fluitans* var. *falcatum* (Bridel) C. J. Hartman, 1838.

D. fontinaliopsis (C. Müller) Brotherus ex Paris, 1909.

D. fontinaliopsis var. *flaccidus* Allison, Trans. Roy. Soc. New Zealand, Bot. 2: 136. f. 6-12. 1963.
Type: New Zealand. Piako R., near Patetong, Hauraki Plains, *Mason 7465*. Holotype: herb. Allison. Paratype cited.

D. polycarpus (Blandow ex Voit in J. W. Sturm) Warnstorf, 1902.

**D. polycarpus* var. *capillifolius* (Warnstorf) Nyholm, Ill. Moss Fl. Fennoscandia. II. Musci 776. 1969.
*illegitimate, later homonym (Article 64.1).
Basionym: *Hypnum capillifolium* Warnstorf, 1877.
Earlier name: *Drepanocladus polycarpus* var. *capillifolius* Loeske, 1910.

D. polycarpus var. *pseudofluitans* (Sanio) Nyholm, Ill. Moss Fl. Fennoscandia. II. Musci 776. 1969.
Basionym: *Hypnum aduncum* var. *pseudofluitans* Sanio, 1880.
Note: invalid, basionym not cited (Article 33.2), in Ill. Moss Fl. Fennoscandia. II. Musci 437. 1965.

D. polycarpus var. *simplicissimus* Nyholm, Ill. Moss Fl. Fennoscandia. II. Musci 776. 1969.
Replaced name: *Hypnum simplicissimum* Warnstorf, 1899.
Blocking name: *Hypnum simplicissimum* Bridel, 1801.
Note: new name, based on adoption of earlier epithet (Article 72.Note 1); invalid, replaced name not cited (Article 33.2), in Ill. Moss Fl. Fennoscandia. II. 437. 1965.

Drepanocladus, continued.
D. rotae (De Notaris) Warnstorf, 1903.
D. rotae var. *trichophyllus* Warnstorf, Krypt.-Fl. Brandenburg, Laubm. 2: 1049. 1906.
Replaced name: *Hypnum trichophyllum* Warnstorf, 1899.
Blocking name: *Hypnum trichophyllum* Swartz ex Hedwig, 1801.
Other use: *Warnstorfia trichophylla* (Warnstorf) Tuomikoski & T. Koponen, 1979.
D. tenuinervis Persson ex T. Koponen, Memoranda Soc. Fauna Fl. Fennica 53: 9. f. 1-6, 10. 1977.
Type: Finland. St. Karin (= Kaarina), Littois (= Littoinen), *Wahlberg*, 1911 (Bryoth. Fenn. 2691). Holotype: H; isotype: H.
D. uncinatus (Hedwig) Warnstorf, 1903.
D. uncinatus var. *drepanoides* (Sanio) Wijk & Margadant, Taxon 14: 197. 1965.
Basionym: *Hypnum uncinatum* var. *drepanoides* Sanio, 1885.

Drummondia W. J. Hooker in Drummond, 1828, conserved name.
D. prorepens (Hedwig) Britton, 1894.
D. prorepens var. *latifolia* Gao Chien, Fl. Musc. Chin. Boreali-Orient. 380. f. 142: 7-13. 1977.
Type: China. Jilin: Mt. Lungdan-Shan Nan-tiemon, *Gao 1859*. Holotype: IFP.
D. pursellii Vitt & H. Crum, Bryologist 71: 119. f. 1-10. 1968.
Type: Mexico. Tamaulipas: 16 miles SW of Victoria along road to Tula, ca. 3500 feet, *Pursell 5553*. Holotype: PAC.
D. sinensis C. Müller, 1896.
D. sinensis var. *ussuriensis* (Brotherus) Vitt, Canad. J. Bot. 50: 1201. 1972.
Basionym: *Drummondia ussuriensis* Brotherus, 1965.
**D. turkestanica* Brotherus, Novosti Sist. Niz. Rast. 1965: 277. f. 2: 7-18. 1965.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Drummondia turkestanica* Brotherus in C. Müller, 1896.
Type: U.S.S.R. Kazachstania, regio Alma-Ataensis, *Regel s.n.* Holotype: H.
D. ussuriensis Brotherus, Novosti Sist. Niz. Rast. 1965: 272. f. 2: 1-6. 1965.
Type: U.S.S.R. Oriens extremus, regio Primorskensis, Ussurijsk, *Sjuzev s.n.* Holotype: H.
Other use: *Drummondia sinensis* var. *ussuriensis* (Brotherus) Vitt, 1972.

Dryptodon Bridel, 1826.
D. subgen. *Ellipticodryptodon* Vilhelm, Acta Bot. Bohem. 2: 53. 1923.
Other use: *Racomitrium* sect. *Ellipticodryptodon* (Vilhelm) Ochyra, Sérgio & Schumacker, 1988.

Eccremidium J. D. Hooker & Wilson, 1846.
E. brisbanicum (Brotherus) Steere & G. A. M. Scott, J. Bryol. 7: 603. 1973 [1974].
Basionym: *Archidium brisbanicum* Brotherus, 1893.

Eccremidium, continued.
E. floridanum H. Crum, Bryologist 84: 531. f. 1-10. 1981 [1982].
Type: U.S.A. Florida: Okaloosa Co., near mouth of Rocky Creek, 30°30'40" N, 86°24'10" W, *Derda OM35*. Holotype: MICH.
E. minutum (Mitten in J. D. Hooker) Steere & G. A. M. Scott, J. Bryol. 7: 603. 1973 [1974].
Basionym: *Bruchia minuta* Mitten in J. D. Hooker, 1859.

Echinodium Juratzka, 1866.
E. umbrosum (Mitten) Jaeger, 1878.
E. umbrosum var. *glaucoviride* (Mitten in J. D. Hooker) Churchill, J. Bryol. 14: 129. 1986.
Basionym: *Hypnum glaucoviride* Mitten in J. D. Hooker, 1867.

Ectropothecium Mitten, 1868.
E. alternarioides Tixier, Rev. Bryol. Lichénol. 33: 211. f. 1-8. 1964 [1965].
Type: Vietnam. Bao-Loc, 800 m, *Tixier s.n.* Herbarium not specified by author.
E. andoi Nishimura, Hikobia 9: 331. f. 1-2. 1986.
Type: Japan. Ryukyus: Toku-no-shima Isl., Mt. Inokawa, 630 m, *Ando 32963*. Holotype: HIRO. Paratypes cited.
E. angustirete Brotherus, Oefers. Förh. Finska Vetensk.-Soc. 40: 184. 1898.
Other use: *Taxiphyllum angustirete* (Brotherus) Buck, 1987.
E. antarense Zanten, Nova Guinea, Bot. 10(16): 345. pl. 32: f. 3. 1964.
Type: Indonesia [New Guinea]. Irian Barat: Mt. Antares: Camp 39a, 1500 m, *Zanten 418*. Holotype: L; isotype: GRO.
E. aquaticum Buck, Brittonia 36: 179. 1984.
Type: Domincan Republic. Pedernales: 22 km N of Pedernales on road to Los Arroyos, at junction of Rio Mulito, 230 m, *Buck 8340*. Holotype: NY; isotype: JBSD.
E. brachycarpum (Dixon) Magill in Magill & Schelpe, Mem. Bot. Surv. South Africa 43: 7. 1979.
Basionym: *Isopterygium brachycarpum* Dixon, 1920.
E. brotheri (R. S. Williams ex Brotherus) Higuchi, J. Hattori Bot. Lab. 59: 69. 1985.
Basionym: *Elmeriobryum brotheri* R. S. Williams ex Brotherus, 1925.
E. crassicaule Mitten, J. Linn. Soc., Bot. 12: 517. 1869.
Other use: *Vesicularia vesicularis* var. *crassicaulis* (Mitten) Buck, 1984.
E. decurrens (Sullivant) Nishimura, J. Hattori Bot. Lab. 58: 76. 1985.
Basionym: *Hypnum decurrens* Sullivant, 1854.
E. excavatum Brotherus in Rechinger, Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 84: 397. 1908.
Other use: *Stereodontopsis excavata* (Brotherus in Rechinger) Ando, 1971.
E. falcifolium (Dixon) Nishimura, J. Hattori Bot. Lab. 58: 75. 1985.
Basionym: *Ctenidium falcifolium* Dixon, 1924.

Ectropothecium, continued.

E. filicaule Fleischer, Hedwigia 44: 326. 1905.
Other use: *Ectropothecium zollingeri* var. *filicaule* (Fleischer) H. A. Miller, H. O. Whittier & B. Whittier, 1978.

E. fiorinae Tosco & Piovano, Allionia 4: 179. f. 47-49. 1956.
Original placement: subgen. *Euectropothecium* [sic].
Note: not in Index Muscorum.

E. fluviatile Zanten, Nova Guinea, Bot. 10(16): 350. pl. 32: f. 4. 1964.
Type: Indonesia [New Guinea]. Irian Barat: Mt. Antares, Camp 39, 1300 m, *Zanten 318a*. Holotype: L; isotype: GRO.

E. giganteum Norris & T. Koponen, Ann. Bot. Fenn. 22: 390. f. 11. 1985.
Type: Papua New Guinea. West Sepik: surroundings of Frieda Base Camp, Horse Creek, 400 m, *Koponen 34769*. Holotype: H; isotypes: HSC, LAE.

E. hebridense Dixon, Notes Roy. Bot. Gard. Edinburgh 20: 100. 1948.
Other use: *Trachythecium hebridense* (Dixon) Schultze-Motel, 1973.

E. laevifolium Mitten, J. Linn. Soc., Bot. 12: 517. 1869.
Other use: *Taxiphyllum laevifolium* (Mitten) Buck, 1987.

E. leptochaeton (Schwägrichen) Buck, Brittonia 35: 311. 1983.
Basionym: *Hypnum leptochaeton* Schwägrichen, 1816.

**E. mauritianum* (Brotherus in Voeltzkow) Nishimura, J. Hattori Bot. Lab. 58: 75. 1985.
*illegitimate, later homonym (Article 64.1).
Basionym: *Ctenidium mauritianum* Brotherus in Voeltzkow, 1908.
Earlier name: *Ectropothecium mauritianum* Renauld & Cardot in Paris, 1900.

**E. nitidum* E. B. Bartram, Rev. Bryol. Lichénol. 30: 205. 1961.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Ectropothecium nitidum* Thériot, 1929.
Correct name: *Ectropothecium novae-guineae* Schultze-Motel, 1963.

E. novae-guineae Schultze-Motel, Taxon 12: 127. 1963.
Replaced name: *Ectropothecium nitidum* E. B. Bartram, 1961.
Blocking name: *Ectropothecium nitidum* Thériot, 1929.

E. obtusulum (Cardot) Iwatsuki, J. Hattori Bot. Lab. 30: 111. 1967.
Basionym: *Isopterygium obtusulum* Cardot, 1905.

E. ohosimense Cardot & Thériot, 1908.

**E. ohosimense* var. *acutifolium* Tixier, Rev. Bryol. Lichénol. 31: 198. f. 3. 1962 [1963].
*invalid, single element not cited as holotype (Article 37.3).

E. ovalifolium (Bescherelle) Buck, Mem. New York Bot. Gard. 45: 521. 1987.
Basionym: *Rhaphidostegium ovalifolium* Bescherelle, 1880.

E. papuanum Schultze-Motel, Taxon 12: 127. 1963.
Replaced name: *Ectropothecium rufulum* Fleischer, 1914.
Blocking name: *Ectropothecium rufulum* Renauld & Cardot in Renauld, 1891.

E. perscabrum Tixier, Rev. Bryol. Lichénol. 34: 171. f. 28. 1966.
Type: Vietnam. Chapa, *Petelot 8*. Herbarium not specified by author.

Ectropothecium, continued.

E. pinnatum Zanten, Nova Guinea, Bot. 10(16): 349. pl. 33: f. 1. 1964.
Type: Indonesia [New Guinea]. Irian Barat: Tanah-Merah, 8 km along road to Mindiptana, 50 m, *Zanten 109*. Holotype: L; isotype: GRO.

E. polypterum Mitten, J. Linn. Soc., Bot. 12: 514. 1869.
Other use: *Caribaeohypnum polypterum* (Mitten) Ando & Higuchi, 1984.

E. ptychofolium Nishimura, Bull. Natl. Sci. Mus., Ser. B, Bot. 10: 154. 1984.
Replaced name: *Ptychophyllum borneense* Brotherus, 1928.
Blocking name: *Ectropothecium borneense* Brotherus & Geheeb, 1898.

E. robustum Zanten, Nova Guinea, Bot. 10(16): 350. pl. 33: f. 2. 1964.
Type: Indonesia [New Guinea]. Irian Barat: Mt. Antares, Camp 39a, 1500 m, *Zanten 335*. Holotype: L; isotype: GRO.

**E. rufulum* Fleischer, Nova Guinea 2: 122. pl. 33: a, 1-9. 1914.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Ectropothecium rufulum* Renauld & Cardot in Renauld, 1891.
Correct name: *Ectropothecium papuanum* Schultze-Motel, 1963.

E. squarrifolium (C. Müller ex Brotherus) Nishimura, J. Hattori Bot. Lab. 58: 75. 1985.
Basionym: *Campylium squarrifolium* C. Müller ex Brotherus, 1897.

E. wangianum Chen Pan-chieh, Sunyatsenia 6: 192. 1941.
Note: not in Index Muscorum.

E. zollingeri (C. Müller) Jaeger, 1880.

E. zollingeri var. *filicaule* (Fleischer) H. A. Miller, H. O. Whittier & B. Whittier, Bryoph. Biblioth. 16: 121. 1978.
Basionym: *Ectropothecium filicaule* Fleischer, 1905.
Note: valid, error of bibliographic citation of basionym (Article 33.2), "*Glossadelphus filicaule*."

E. zollingeri var. *formosicum* (Cardot) Lai Ming-jou in Lai Ming-jou & Wang-Yang Jen-rong, Taiwania 21: 182. 1976.
Basionym: *Hypnum planifrons* var. *formosicum* Cardot, 1905.

Elharveya H. Crum, Bryologist 89: 26. 1986.
Replaced name: *Harveya* H. Crum, 1985.
Blocking name: *Harveya* W. J. Hooker, 1837.

E. visicularioides (H. Crum) H. Crum, Bryologist 89: 26. 1986.
Basionym: *Harveya vesicularioides* H. Crum, 1985.

Elmeriobryum Brotherus in Engler & Prantl, 1925.

E. brotheri R. S. Williams ex Brotherus, Nat. Pflanzenfam. (ed. 2) 11: 204. 1925.
Other use: *Ectropothecium brotheri* (R. S. Williams ex Brotherus) Higuchi, 1985.

E. guatemalense Rohrer, Bryologist 89: 29. f. 6-9. 1986.
Type: Guatemala. San Marcos: Barranco Eminencia, road between San Marcos and San Rafael Pie de la Cuesta, 2500-2700 m, *Standley 86466*. Holotype: MICH; isotypes: F, FH, NY. Other indicated distribution: Costa Rica, El Salvador.

Encalypta Hedwig, 1801.

E. sect. *Megasporae* D. G. Horton, J. Hattori Bot. Lab. 54: 375. 1983.
Type: *E. longicollis* Bruch, holotype.

E. affinis R. A. Hedwig in Weber & D. Mohr, 1805.

E. affinis subsp. *macounii* (Austin) D. G. Horton, J. Hattori Bot. Lab. 54: 465. 1983.
Basionym: *Encalypta macounii* Austin, 1877.

E. affinis var. *macounii* (Austin) H. Crum & L. E. Anderson, Bryologist 92: 533. 1989.
Basionym: *Encalypta macounii* Austin, 1877.

E. brevicollis (Bruch & Schimper) Ångström, 1844.

E. brevicollis subsp. *crumiana* D. G. Horton, J. Hattori Bot. Lab. 54: 475. f. 290, 298-307. 1983, "*brevicolla*."
Type: U.S.A. Oregon: Curry Co., W of Squirrel Peak, 42°34'15" N, 123°55' W, 1220 m, *Wagner 1921*. Holotype: ALTA; isotypes: ORE, WTU.
Other use: *Encalypta brevicollis* var. *crumiana* (D. G. Horton) H. Crum & L. E. Anderson, 1989.

E. brevicollis var. *crumiana* (D. G. Horton) H. Crum & L. E. Anderson, Bryologist 92: 533. 1989, "*Encalypta brevicolla var. crummiana*."
Basionym: *Encalypta brevicollis* subsp. *crumiana* D. G. Horton, 1983.

E. brevipes Schljakov, Bot. Mater. Otd. Sporov. Rast. 7: 227. pl. 1. 1951.
Note: not in Index Muscorum.

E. flowersiana D. G. Horton, Bryologist 82: 374. f. 12-23. 1979.
Type: Haiti. Ouest: near summit of Pic La Selle, Morne La Selle, 2675 m, *Wetmore 3129*. Holotype: CANM; isotype: MSC. Other indicated distribution: Guatemala.

E. longipes Mitten, J. Proc. Linn. Soc., Bot. 8: 29. 1864.
Other use: *Bryobrittonia longipes* (Mitten) D. G. Horton, 1978.

E. macounii Austin, Bot. Gaz. (Crawfordsville) 2: 97. 1877, "*macouni*."
Other use: *Encalypta affinis* subsp. *macounii* (Austin) D. G. Horton, 1983, *Encalypta affinis* var. *macounii* (Austin) H. Crum & L. E. Anderson, 1989.

E. rhabdocarpa Schwägrichen, Sp. Musc. Frond., Suppl. 1 1: 56. pl. 16. 1811, "*rhabtocarpa*."
Other use: *Encalypta vulgaris* var. *rhabdocarpa* (Schwägrichen) E. Lawton, 1971.

E. streptocarpa Hedwig, 1801.

E. streptocarpa fo. *pumila* Grom, Acta Bot. Croat. 26-27: 249. 1967-68 [1968].
Type: Yugoslavia. Prope Idrija, 100 m, *Wraber 637*. Holotype: herb. Grom.

E. streptocarpa fo. *robusta* Grom, Acta Bot. Croat. 26-27: 248. 1967-68 [1968].
Type: Yugoslavia. In caverna glacialis "Velika ledenica" in silva Trnovski gozd., *Wraber 82*. Holotype: herb. Grom.

E. vittiana D. G. Horton, Bryologist 82: 369. f. 1-10. 1979.
Type: Canada. Yukon: Bonnet Plume Rng., slopes above NW shore of Pinguicula, 64°42' N, 133°27' W, 824-967 m, *Horton & Vitt*, 1976. Holotype: ALTA; isotype: herb. Horton. Other indicated distribution: Canada (Northwest Territories), U.S.A. (Alaska).

Encalypta, continued.
E. vulgaris Hedwig, 1801.
E. vulgaris var. *rhabdocarpa* (Schwägrichen) E. Lawton, Moss Fl. Pacific Northwest 118. 1971.
Basionym: *Encalypta rhabdocarpa* Schwägrichen, 1811.

+**Encalyptaesporites** Nagy, Acta Bot. Hung. 14: 129. 1968.
Type: *E. pliocenicus* Nagy, holotype.
Original placement: Encalyptaceae.
+*E. pliocenicus* Nagy, Acta Bot. Acad. Sci. Hung. 14: 129. pl. 8: f. 1-3, 6. 1968.
Type: Hungary. Hidas, bore-hole H.53, 132.5-134.8 m (Upper Pannonian), bore-hole no. H.53, sample 4, slide 1, cross-table no 33.8-108.2. Holotype: HGI Pollen Laboratory.

Endotrichella C. Müller, 1872.
E. apiculata E. B. Bartram, Contr. U.S. Natl. Herb. 37: 56. 1965.
Type: Papua New Guinea. Arau, 1400 m, *Brass 31909*. Holotype: US.
Other use: *Garovaglia elegans* fo. *apiculata* (E. B. Bartram) During, 1977.
E. arundinifolia Noguchi & Iwatsuki, J. Hattori Bot. Lab. 36: 458. g. 1: a-e. 1972.
Type: Malaysia [Borneo]. Sabah: Mt. Kinabalu, above confluence of S. Liwagu and S. Kelinggen, 1400-1700 m, *Iwatsuki 1304*. Holotype: NICH.
E. binnsteadii Brotherus, Oefers. Förh. Finska Vetensk.-Soc. 42: 107. 1899 [1900].
Other use: *Garovaglia binsteadii* (Brotherus) During, 1977.
E. brassii E. B. Bartram, Lloydia 5: 275. f. 37. 1942.
Other use: *Garovaglia brassii* (E. B. Bartram) During, 1977.
E. dietrichiae C. Müller, Linnaea 37: 155. 1872.
Other use: *Garovaglia elegans* subsp. *dietrichiae* (C. Müller) During, 1977.
E. eberhardtii Brotherus & Paris in Paris, Rev. Bryol. 34: 44. 1907, "*eberhardti*."
Other use: *Garovaglia eberhardtii* (Brotherus & Paris in Paris) During, 1977.
E. falcifolia E. B. Bartram, Contr. U.S. Natl. Herb. 37: 57. 1965.
Type: Papua New Guinea. Purosa, Okapa area, 2000 m, *Brass 31840*. Holotype: US.
Other use: *Garovaglia elegans* fo. *falcifolia* (E. B. Bartram) During, 1977.
E. graeffeana C. Müller, J. Mus. Godeffroy 3(6): 74. 1874.
Other use: *Garovaglia elegans* var. *graeffeana* (C. Müller) During, 1977.
E. gyldenstolpei E. B. Bartram, Svensk Bot. Tidskr. 47: 400. 1953.
Other use: *Garovaglia angustifolia* fo. *gyldenstolpei* (E. B. Bartram) During, 1977.
E. latifolia E. B. Bartram, Svensk Bot. Tidskr. 45: 605. 1951.
Other use: *Garovaglia elegans* fo. *latifolia* (E. B. Bartram) During, 1977.
E. lepidopiloides Brotherus, Oefers. Förh. Finska Vetensk.-Soc. 42: 106. 1900.
Other use: *Garovaglia compressa* var. *lepidopiloides* (Brotherus) During, 1977.

Endotrichella, continued.

E. maquilinensis Tixier ex During, Bryoph. Biblioth. 12: 211. 1977.
Type: Philippines [Luzon]. Mt. Maquiling, side of Laguna de Bay, 60 km from Manila, *Tixier 1400*. Holotype: PC.
Note: invalid, holotype not indicated (Article 37.1), in Gard. Bull. Straits Settlem. 26: 144. f. 2. 1972.

E. musgraveae Brotherus, Oefers. Förh. Finska Vetensk.-Soc. 42: 106. 1899 [1900].
Other use: *Garovaglia elegans* fo. *musgraveae* (Brotherus) During, 1977.

E. perplicata Brotherus, Philipp. J. Sci. 8: 77. 1913.
Other use: *Garovaglia elegans* fo. *perplicata* (Brotherus) During, 1977.

E. pilifera Brotherus, Philipp. J. Sci. 8: 77. 1913.
Other use: *Garovaglia angustifolia* fo. *pilifera* (Brotherus) During, 1977.

E. planomarginata Dixon, Bull. Torrey Bot. Club 51: 235. 1924.
Other use: *Garovaglia powellii* var. *planomarginata* (Dixon) During, 1977.

E. robbinsii E. B. Bartram, Rev. Bryol. Lichénol. 30: 197. 1961.
Other use: *Garovaglia robbinsii* (E. B. Bartram) During, 1977.

E. straminea Noguchi & Iwatsuki, J. Hattori Bot. Lab. 36: 459. f. 1: f-j. 1972.
Type: Malaysia [Borneo]. Sabah: Mt. Kinabalu, between Tenompock Pass and Kambaranga Radio Station, 1400-1900 m, *Iwatsuki 3404*. Holotype: NICH.

Endotrichellopsis During, Bryoph. Biblioth. 12: 73. 1977.
Type: *Garovaglia laevifolia* Thwaites & Mitten, *E. laevifolia* (Thwaites & Mitten) During, holotype.
Original placement: Pterobryaceae.

E. laevifolia (Thwaites & Mitten in Mitten) During, Bryoph. Biblioth. 12: 75. 1977.
Basionym: *Garovaglia laevifolia* Thwaites & Mitten in Mitten, 1873.

Endotrichum Dozy & Molkenboer, 1844.

E. lanceolatum Wright, J. Bot. 30: 264. 1892.
Other use: *Garovaglia angustifolia* fo. *lanceolata* (Wright) During, 1977.

E. muelleri Hampe, Linnaea 40: 318. 1876.
Other use: *Garovaglia powellii* subsp. *muelleri* (Hampe) During, 1977.

Entodon C. Müller, 1845.

**E. abyssinicus* Tosco & Piovano, Allionia 4: 164. 1956.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Entodon abyssinicus* (C. Müller) Jaeger, 1878.
Correct name: *Entodon piovani* Bizot in Piovano & Tosco, 1971.
Note: not in Index Muscorum.

E. acutifolius Hu Ren-liang, Bryologist 86: 206. f. 23-30. 1983.
Type: China. Yunnan, *Yang 326*. Holotype: PE.

E. buckii Lin Shan-Hsiung, Yushania 1(1): 1. f. 1-2. 1984.
Type: China. Jiangxi: Kuling, by Kiukiang, 1200 m, *Barkman s.n.* Holotype: L.

Entodon, continued.

E. campipatrum Sehnem, Pesquisas, Bot. 28: 43. pl. 7: f. 2. 1970.
Type: Brazil. Santa Catarina: Bom Retiro, Campo dos Padres, 1700 m, *Sehnem 7008*. Herbarium not specified by author.

E. compressus (Hedwig) C. Müller, 1845.

E. compressus var. *zikaiweiensis* (Paris) Hu Ren-liang, Bryologist 86: 214. 1983.
Basionym: *Entodon zikaiweiensis* Paris, 1909.

E. herbaceus Bescherelle, 1899.

E. herbaceus var. *versicolor* Bescherelle, Öfvers. Förh. Kongl. Svenska Vetensk.-Akad. 57(2): 293. 1900.
Other use: *Entodon sullivantii* var. *versicolor* (Bescherelle) U. Mizushima in Wijk & Margadant, 1965.

E. kungshanensis Hu Ren-liang, J. Shanghai Norm. Univ. 1: 102. f. 1-14. 1978.
Type: China. Yunnan: Kungshan, 2100 m, *Wang*, 1935. Holotype: PE.
Note: redescribed in J. Bryol. 11: 249. f. 1. 1980.

E. lepyrodontoides C. Müller, Hedwigia 40: 57. 1901.
Other use: *Mesonodon regnellianus* var. *lepyrodontoides* (C. Müller) Buck, 1980.

E. longicostatus Buck, J. Hattori Bot. Lab. 48: 113. 1980.
Type: China. Guangdong: near Canton, *Levine 1842*. Holotype: BM; isotype: NY.
Original placement: subgen. *Erythropus*.

E. nanocarpus C. Müller, 1897.

E. nanocarpus var. *zikaiweiensis* (Paris) Gao Chien, Fl. Musc. Chin. Boreali-Orient. 322. 1977.
Basionym: *Entodon zikaiweiensis* Paris, 1909.

E. nepalensis U. Mizushima in Noguchi in H. Hara, Fl. E. Himalaya 1: 584. f. 42. 1966.
Type: Nepal. Batasey-Bhuspate Danra, 2300-2800 m, *Hara, Kanai, Kurosawa, Murata, Togashi & Tuyama 237307*. Holotype: NICH; isotype: TI.

E. novarae (Reichardt) Lin Shan-Hsiung, J. Hattori Bot. Lab. 55: 300. 1984.
Basionym: *Hypnum novarae* Reichardt, 1868.
Note: invalid, cited as synonym (Article 34.1), in Fleischer, Hedwigia 63: 211. 1922, and basionym not cited (Article 33.2), in S.-H. Lin, J. Taiwan Mus. 36(2): 37. 1983.

E. piovani Bizot in Piovano & Tosco, Allionia 17: 82. 1971.
Replaced name: *Entodon abyssinicus* Tosco & Piovano, 1956.
Blocking name: *Entodon abyssinicus* (C. Müller) Jaeger, 1878.

E. pylaisioides Hu Ren-liang & Wang You-fang, J. Bryol. 11: 249. f. 2. 1980.
Type: China. Xizang: Yadong, 2200 m, *Zhang 235*. Holotype: KUN.

E. rufescens Lazarenko, Bot. Zhurn. (Kiev) 2: 188. 1945.
Note: not in Index Muscorum.

E. sinense (Dixon) Lazarenko, Bot. Zhurn. (Kiev) 2: 189. 1945.
Basionym: *Clastobryum sinense* Dixon, 1928.
Note: not in Index Muscorum.

Entodon, continued.
E. solanderi (Ångström) Jaeger, 1878.
E. solanderi var. *turgidus* (Ångström) H. O. Whittier in H. O. Whittier & B. Whittier, Bryologist 77: 440. 1974.
Basionym: *Cylindrothecium turgidum* Ångström, 1873.
E. stewartii (Dixon) Buck, J. Hattori Bot. Lab. 48: 113. 1980.
Basionym: *Retidens stewartii* Dixon, 1936.
E. sullivantii (C. Müller) Lindberg, 1872.
E. sullivantii var. *versicolor* (Bescherelle) U. Mizushima in Wijk & Margadant, Taxon 14: 197. 1965.
Basionym: *Entodon herbaceus* var. *versicolor* Bescherelle, 1900.
E. taiwanensis Wang Chung K'uei & Lin Shan-Hsiung, Bot. Bull. Acad. Sin. 16: 200. f. 1. 1975.
Type: China. Taiwan: Nantou, Chitou, 1200 m, *Wang & Lin*, 1973. Holotype: TUNGH.
E. transbaicalensis Bardunov, Novosti Sist. Niz. Rast. 1968: 304. f. 105. 1968.
Type: U.S.S.R. R.S.F.S.R.: regio Czita, in vic. pagi Nerczinskij Zavod, fl. Serebrjanka, *Bardunov*, 1963. Holotype: IRK; isotype: LE.
Original placement: subgen. *Erythropus*.
E. werneri (Herzog) Buck, J. Hattori Bot. Lab. 48: 112. 1980.
Basionym: *Cribrodontium werneri* Herzog, 1916.
E. zikaiweiensis Paris, Rev. Bryol. 36: 10. 1909.
Other use: *Entodon compressus* var. *zikaiweiensis* (Paris) Hu Ren-liang, 1983, *Entodon nanocarpus* var. *zikaiweiensis* (Paris) Gao Chien, 1977.

Entodontopsis Brotherus in Engler & Prantl, 1907.
E. anceps (Bosch & Sande Lacoste) Buck & Ireland, Nova Hedwigia 41: 103. 1985.
Basionym: *Hypnum anceps* Bosch & Sande Lacoste, 1867.
E. angustiretis (Brotherus) Buck & Ireland, Nova Hedwigia 41: 103. 1985.
Basionym: *Stereophyllum angustirete* Brotherus, 1900.
E. leucostega (Bridel) Buck & Ireland, Nova Hedwigia 41: 103. 1985.
Basionym: *Leskea leucostega* Bridel, 1827.
E. mexicana (R. S. Williams) Buck & Ireland, Nova Hedwigia 41: 104. 1985.
Basionym: *Stereophyllum mexicanum* R. S. Williams, 1923.
E. nitens (Mitten) Buck, Nova Hedwigia 40: 104. 1985.
Basionym: *Stereophyllum nitens* Mitten, 1860.
E. nitens var. *belliretis* (Herzog) Buck & Ireland, Nova Hedwigia 41: 105. 1985.
Basionym: *Stereophyllum homalioides* var. *bellirete* Herzog, 1952.
E. panamensis (E. B. Bartram in H. Crum & Arzeni) Buck & Ireland, Nova Hedwigia 41: 105. 1985.
Basionym: *Stereophyllum panamense* E. B. Bartram in H. Crum & Arzeni, 1953.
E. papillifera (Mitten) Buck & Ireland, Nova Hedwigia 41: 105. 1985.
Basionym: *Stereophyllum papilliferum* Mitten, 1869.

Entodontopsis, continued.
E. pygmaea (Paris & Brotherus) Buck & Ireland, Nova Hedwigia 41: 105. 1985.
Basionym: *Stereophyllum pygmaeum* Paris & Brotherus, 1907.
E. radicalis (Spruce ex Jaeger) Buck, Brittonia 33: 559. 1981.
Basionym: *Eriodon radicalis* Spruce ex Jaeger, 1878.
E. rhynchostegioides (Brotherus & Paris in Paris) Buck & Ireland, Nova Hedwigia 41: 105. 1985.
Basionym: *Stereophyllum rhynchostegioides* Brotherus & Paris in Paris, 1908.
E. rufescens (Brotherus) Buck & Ireland, Nova Hedwigia 41: 105. 1985.
Basionym: *Stereophyllum rufescens* Brotherus, 1894.
E. sedgwickii (Brotherus & Dixon) Buck & Ireland, Nova Hedwigia 41: 105. 1985.
Basionym: *Stereophyllum ligulatum* var. *sedgwickii* Brotherus & Dixon, 1914.
E. setschwanica (Brotherus) Buck & Ireland, Nova Hedwigia 41: 105. 1985.
Basionym: *Stereophyllum setschwanicum* Brotherus, 1924.
E. tavoyensis (W. J. Hooker) Buck & Ireland, Nova Hedwigia 41: 105. 1985.
Basionym: *Hypnum tavoyense* W. J. Hooker, 1836.
E. tenuinervis (Brotherus in Paris) Buck & Ireland, Nova Hedwigia 41: 106. 1985.
Basionym: *Stereophyllum tenuinerve* Brotherus in Paris, 1904.
E. wrightii (Mitten) Buck & Ireland, Nova Hedwigia 41: 106. 1985.
Basionym: *Hypnum wrightii* Mitten, 1959.

Entosthodon Schwägrichen, 1823.
E. subgen. *Murcia* Fife, J. Hattori Bot. Lab. 58: 191. 1985.
Type: *Gymnostomum fasciculare* Hedwig, *E. fascicularis* (Hedwig) C. Müller, holotype.
E. subgen. *Plagiodus* (Mitten) Fife, J. Hattori Bot. Lab. 58: 191. 1985.
Basionym: *Funaria* sect. *Plagiodus* Mitten, 1869.
E. acaulis (Hampe) Fife, J. Hattori Bot. Lab. 58: 192. 1985.
Basionym: *Funaria acaulis* Hampe, 1860.
E. americanus (Lindberg) Fife, J. Hattori Bot. Lab. 58: 192. 1985.
Basionym: *Funaria americana* Lindberg, 1863.
Note: valid, error of bibliographic citation of basionym (Article 33.2), "Sull., Icon. Musc. Suppl.: p. 30 . . . (1874)."
E. apiculatopilosus (Cardot) Fife, J. Hattori Bot. Lab. 58: 192. 1985.
Basionym: *Funaria apiculatopilosa* Cardot, 1913.
E. borneensis (Dixon) Iwatsuki, J. Hattori Bot. Lab. 32: 272. 1969.
Basionym: *Funaria borneensis* Dixon, 1935.
E. brassii E. B. Bartram, Lloydia 5: 258. f. 10. 1942.
Other use: *Funaria brassii* (E. B. Bartram) Schultze-Motel, 1963.
E. cavifolius Mitten in Harvey, Thes. Cap. 1: 64. 1859.
Other use: *Funaria harveyana* Magill in Magill & Schelpe, 1979.

Entosthodon, continued.

**E. cavifolius* E. B. Bartram, Lloydia 5: 258. f. 11. 1942.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Entosthodon cavifolius* Mitten in Harvey, 1859.
Other use: *Funaria bartramiana* Schultze-Motel, 1963.

E. clavatus Mitten in Harvey, Thes. Cap. 1: 63. 1859.
Other use: *Funaria clavata* (Mitten in Harvey) Magill, 1987.

E. contortus E. B. Bartram, Lloydia 5: 259. f. 13. 1942.
Other use: *Funaria contorta* (E. B. Bartram) Schultze-Motel, 1963.

E. gracilis J. D. Hooker & Wilson, Fl. Nov.-Zel. 2: 91. pl. 86: f. 7. 1854.
Other use: *Entosthodon subnudus* var. *gracilis* (J. D. Hooker & Wilson) Fife, 1985.

E. laevis (Mitten) Fife, J. Hattori Bot. Lab. 58: 191. 1985.
Basionym: *Funaria laevis* Mitten, 1869.

E. muhlenbergii (Turner) Fife, J. Hattori Bot. Lab. 58: 192. 1985.
Basionym: *Funaria muhlenbergii* Turner, 1804 [Jun 1805].

E. nutans Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 55. 1859.
Other use: *Loiseaubryum nutans* (Mitten) Fife, 1985.

E. obtusatus (W. P. Schimper in C. Müller) Fife, Mem. New York Bot. Gard. 45: 309. 1987.
Basionym: *Funaria obtusata* W. P. Schimper in C. Müller, 1851.

E. paraguensis (Brotherus) Buck, Candollea 40: 203. 1985.
Basionym: *Funaria paraguensis* Brotherus, 1900.

E. serratus (Bridel) Fife, J. Hattori Bot. Lab. 58: 192. 1985.
Basionym: *Funaria serrata* Bridel, 1817.

E. steerei Fife, Bryologist 87: 154. f. 1-25. 1984.
Type: Ecuador. Carchi: below Tambo Encanto, trail to Maldonado,valley of Rio la Plata, W slope of Cord. Occidental, 2100-2900 m, *Steere 8870*. Holotype: NY; isotype: MICH.

E. subintegrus (Brotherus) H. A. Miller, H. O. Whittier & B. Whittier, Bryoph. Biblioth. 16: 125. 1978.
Basionym: *Funaria subintegra* Brotherus, 1927.

E. subnudus (Taylor) Fife, J. Hattori Bot. Lab. 58: 192. 1985.
Basionym: *Funaria subnuda* Taylor, 1846.

E. subnudus var. *gracilis* (J. D. Hooker & Wilson) Fife, J. Hattori Bot. Lab. 58: 192. 1985.
Basionym: *Entosthodon gracilis* J. D. Hooker & Wilson, 1854.

E. subpallescens Lazarenko, Zhurn. Inst. Bot. Vseukrajins'k. Akad. Nauk 26-27: 207. 1938.
Other use: *Funaria subpallescens* (Lazarenko) Smirnova, 1969 [1970].

E. subulatus E. B. Bartram, Lloydia 5: 259. f. 12. 1942.
Other use: *Funaria subulata* (E. B. Bartram) Schultze-Motel, 1963.

E. urceolatus Mitten in Harvey, Thes. Cap. 1: 63. 1859.
Other use: *Funaria urceolata* (Mitten in Harvey) Magill in Magill & Schelpe, 1979.

Entosthodon, continued.
E. venezuelanus H. Crum in Mägdefrau, Nova Hedwigia 38: 54. f. 4. 1983.
Type: Venezuela. Merida: Loma Redonda (Pico Espejo), river near the Laguna de los Anteojos, 3980 m, *Mägdefrau 626d*. Holotype: MICH; isotype: M.

Eobruchia Buck, Brittonia 31: 470. 1979.
Type: *Brachyodon bruchioides* C. Müller, *E. bruchioides* (C. Müller) Buck, holotype.
Original placement: Bruchiaceae.
E. bruchioides (C. Müller) Buck, Brittonia 31: 470. 1979.
Basionym: *Brachyodon bruchioides* C. Müller, 1898.
E. ecuatoriana Steere, Brittonia 34: 435. 1982.
Type: Ecuador. Napo: Cordillera Oriental, just E of summit, Paramode Papallacta, N of Quito-Baeza Hwy., 4200 m, *Steere & Balslev 25290*. Holotype: NY.

Eoleucodon H. A. Miller & H. O. Whittier, Phytologia 40: 253. 1978.
Type: *Leucodon pacificus* Bescherelle, *E. pacificus* (Bescherelle) H. A. Miller & H. O. Whittier, holotype.
Original placement: Leucodontaceae.
E. pacificus (W. P. Schimper ex Bescherelle) H. A. Miller & H. O. Whittier, Phytologia 40: 254. 1978.
Basionym: *Leucodon pacificus* W. P. Schimper ex Bescherelle, 1895.

Ephemerella C. Müller, 1848, conserved name.
E. nervosa Dixon, Trans. Roy. Soc. South Africa 18: 254. f. 6. 1930 [1929].
Other use: *Ephemerum nervosum* (Dixon) Schelpe in Magill & Schelpe, 1979.
E. readeri C. Müller, Hedwigia 41: 120. 1902.
Other use: *Physcomitrella patens* subsp. *readeri* (C. Müller) B. C. Tan, 1979, *Physcomitrella readeri* (C. Müller) Stone & G. A. M. Scott, 1973 [1974].
E. sessilis (Bruch) Nyholm, Ill. Moss Fl. Fennoscandia. II. Musci 775. 1969.
Basionym: *Phascum sessile* Bruch, 1844.
Note: invalid, basionym not cited (Article 33.2), in Ill. Moss Fl. Fennoscandia II. Musci 176. 1956.

+**Ephemerisporites** Nagy, Acta Bot. Hung. 14: 130. 1968.
Type: *E. borsodensis* Nagy, holotype.
Original placement: Ephemeraceae.
+*E. borsodensis* Nagy, Acta Bot. Acad. Sci. Hung. 14: 131. pl. 5: f. 1-2, 7. 1968.
Type: Hungary. Bogacs, Borsod County, bore-hole Bogacs 9/5, 147-150 m, (Lower Pannonian), *Bore-hole no.: Bogacs 9/5; sample: 11; slide: 1; Cross-table no.: 43-108.5*. Holotype: HGI Pollen Laboratory.

Ephemerum Hampe, 1837, conserved name.
E. argentinicum Schiavone & Sarmiento, Lilloa 26: 222. f. 1. f. 1 [sic]. pl. 1: A. 1985.
Type: Argentina. Santa Fe: Guadalupe, *Sarmiento*, 1983. Holotype: LIL.
E. lacustre C. Müller in Brotherus, Hedwigia 34: 117. 1895.
Other use: *Micromitrium lacustre* (C. Müller in Brotherus) Crosby, 1968.
E. namaquense Magill, Fl. S. Africa, Bryophyta, Mosses 2: 307. f. 86: 1-8. 1987.
Type: South Africa. Cape: Namaqualand, 10 km NE of Vanrhynsdorp, *Magill & Schelpe 3921*. Holotype: MO; isotypes: BOL, PRE.
E. neocaledonicum Thériot, Bull. Acad. Int. Géogr. Bot. 19: 21. 1909.
Other use: *Micromitrium neocaledonicum* (Thériot) Crosby, 1968.
E. nervosum (Dixon) Schelpe in Magill & Schelpe, Mem. Bot. Surv. South Africa 43: 7. 1979.
Basionym: *Ephemerella nervosa* Dixon, 1930 [1929].
E. perexiguum C. Müller, Hedwigia 39: 235. 1900.
Other use: *Micromitrium perexiguum* (C. Müller) Crosby, 1968.
E. perminutum C. C. Townsend, J. Bryol. 11: 697. f. 2. pl. 1. 1981 [1982].
Type: Tanzania. Ufipa, road from Sumbawanga to Mbala (Zambia), ca. 1650 m, *Townsend 80/266*. Holotype: BM; isotype: herb. Townsend.
E. subaequinoctale Brotherus, Hedwigia 45: 274. 1906.
Other use: *Micromitrium subaequinoctale* (Brotherus) Crosby, 1968.
E. wrightii C. Müller, Linnaea 43: 351. 1882.
Other use: *Micromitrium wrightii* (C. Müller) Crosby, 1968.

Epipterygium Lindberg, 1862.
E. diversifolium Renauld & Paris, Rev. Bryol. 29: 80. 1902.
Other use: *Bryum pocsii* Bizot, 1971-72 [1973].
E. koelzii H. Robinson, Bryologist 71: 88. f. 19-24. 1968.
Type: India. Uttar Pradesh: Kapkot, 4200 feet, *Koelz 20056*. Holotype: US.
E. vanuatuicum H. A. Miller, Syst. Bot. 13: 133. f. 1-2. 1988.
Type: Vanuatu. Ambrym Island, east fork of Woala River, 550 m, *Miller 19389*. Holotype: MU. Paratypes cited.

Eriodon Montagne, 1845.
E. longipes R. S. Williams, Field Mus. Nat. Hist., Bot. Ser. 4(5): 136. pl. 10. 1927.
Other use: *Porotrichodendron longipes* (R. S. Williams) Buck, 1981.
E. radicalis Spruce ex Jaeger, Ber. Thätigk. St. Gallischen Naturwiss. Ges. 1876-77: 271 (Gen. Sp. Musc. 2: 1089). 1878.
Replaced name: *Hypnum sprucei* Mitten, 1869.
Blocking name: *Hypnum sprucei* (Bruch in Spruce) Spruce, 1847.
Other use: *Entodontopsis radicalis* (Spruce ex Jaeger) Buck, 1981.

Eriopus (Bridel) Bridel, 1827.
E. apiculatus (J. D. Hooker & Wilson) Mitten, 1869.
E. apiculatus var. *spathulatus* Matteri, Nova Hedwigia 26: 687. pl. 20, f. 12-14. 1975 [1976].
Type: Chile. Tanume, *Aspillaga*, 1920. Holotype: FH; isotype: SI. Paratypes cited.
E. brownii Dixon, New Zealand Inst. Bull. 3(5): 286. pl. 10: f. 11. 1927.
Other use: *Calyptrochaeta brownii* (Dixon) Bartlett, 1985.
E. deflexus C. Müller, Linnaea 38: 609. 1874.
Other use: *Calyptrochaeta deflexa* (C. Müller) Churchill, 1989.
E. enervis Noguchi & Iwatsuki, J. Hattori Bot. Lab. 36: 478. f. 6: g-l. 1972.
Type: Malaysia [Borneo]. Sabah: Mt. Kinabalu, above Paka Cave, 2980-3200 m, *Iwatsuki 1027*. Holotype: NICH.
Other use: *Calyptrochaeta enervis* (Noguchi & Iwatsuki) Touw, 1978.
E. flaccidus Brotherus, Philipp. J. Sci. 13: 213. 1918.
Other use: *Calyptrochaeta flaccida* (Brotherus) Iwatsuki, B. C. Tan & Touw in Touw, 1978.
E. grandiretis Brotherus in Skottsberg, Nat. Hist. Juan Fernández 2(3): 436. pl. 27: f. 3-4. 1924.
Other use: *Calyptrochaeta grandiretis* (Brotherus in Skottsberg) H. Robinson, 1975.
E. haitensis H. Crum & Steere, Amer. Midl. Naturalist 60: 34. f. 84-94. 1958.
Other use: *Piloseriopus haitensis* (H. Crum & Steere) A. J. Sharp, 1987, *Calyptrochaeta haitensis* (H. Crum & Steere) Crosby, 1974.
E. japonicus Cardot & Thériot, Bull. Acad. Int. Géogr. Bot. 17: ii. 1908.
Other use: *Calyptrochaeta japonica* (Cardot & Thériot) Iwatsuki & Noguchi, 1979.
E. leptoloma Brotherus in Skottsberg, Nat. Hist. Juan Fernández 2(3): 436. pl. 27: f. 1-2. 1924.
Other use: *Calyptrochaeta leptoloma* (Brotherus in Skottsberg) H. Robinson, 1975.
E. marginatus Thériot, Bull. Acad. Int. Géogr. Bot. 19: 22. 1909.
Other use: *Calyptrochaeta marginata* (Thériot) Pursell & W. D. Reese, 1982.
E. odontoloma Dusén ex Matteri, Nova Hedwigia 26: 687. pl. 22: f. 1-10. 1975 [1976].
Type: Chile. Llanquihue: Lago Llanquihue, *Dusén 749*. Holotype: JE; isotypes: FH, UPS. Paratype cited.
Other use: *Calyptrochaeta odontoloma* (Dusén ex Matteri) Matteri, 1985.
Note: invalid, no description (Article 41.3), in Dusén, Rep. Princeton Univ. Exp. Patagonia, Bot. 8: 124. 1903.
E. parviretis Fleischer, Musci Buitenzorg 3: 1008. 1908, "*parviretus*."
Other use: *Calyptrochaeta parviretis* (Fleischer) Iwatsuki, B. C. Tan & Touw in Touw, 1978.
E. remotifolius C. Müller, Bot. Zeitung (Berlin) 5: 828. 1847.
Other use: *Calyptrochaeta remotifolia* (C. Müller) Iwatsuki, B. C. Tan & Touw in Touw, 1978.

Eriopus, continued.

E. rotundifolius Noguchi & Iwatsuki, J. Hattori Bot. Lab. 36: 480. f. 6: a-f. 1972.
Type: Malaysia [Borneo]. Sabah: Mt. Kinabalu, below Paka Cave, 2850-3000 m, *Iwatsuki 1058*. Holotype: NICH.
Other use: *Calyptrochaeta rotundifolia* (Noguchi & Iwatsuki) Touw, 1978.

E. setigerus Mitten, J. Linn. Soc., Bot. 12: 392. 1869.
Other use: *Calyptrochaeta setigera* (Mitten) Buck, 1987, *Piloseriopus setigerus* (Mitten) A. J. Sharp, 1986.

E. spinosus Noguchi, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 3: 51. f. 6. 1937.
Other use: *Calyptrochaeta spinosa* (Noguchi) Ninh, 1981.

Erpodium (Bridel) Bridel, 1827.

E. acrifolium Pursell, Bryologist 69: 465. f. 7-14. 1966 [1967].
Type: Mexico. Tamaulipas: 9.2 miles E of Cd. Victoria on road to Casas, 500 feet, *Pursell & Reese 5505*. Holotype: US; isotype: PAC.

E. australiense Stone, J. Bryol. 12: 191. f. 1: a-j, 2: a-k. pl. 1. 1982.
Type: Australia. Queensland, *Stone 15928*. Holotype: BRI.

E. cubense Britton, Bull. Torrey Bot. Club 32: 267. 1905.
Other use: *Erpodium domingense* var. *cubense* (Britton) H. Crum, 1972 [1973].

E. domingense (Sprengel) Bridel, 1827.

E. domingense var. *cubense* (Britton) H. Crum, Nova Hedwigia 23: 209. 1972 [1973].
Basionym: *Erpodium cubense* Britton, 1905.

E. luzonense (E. B. Bartram) H. Crum, Nova Hedwigia 23: 216. 1972 [1973].
Basionym: *Aulacopilum luzonense* E. B. Bartram, 1939.

Erythrodontium Hampe, 1870.

E. brasiliense (Hampe) Paris, 1904.

E. brasiliense fo. *brevipes* (Brotherus in Herzog) F. J. Hermann, Bryologist 79: 156. 1976.
Basionym: *Erythrodontium germainii* var. *brevipes* Brotherus in Herzog, 1916.

E. germainii (C. Müller) Paris, 1900.

E. germainii var. *brevipes* Brotherus in Herzog, Biblioth. Bot. 87: 127. 1916.
Other use: *Erythrodontium brasiliense* fo. *brevipes* (Brotherus in Herzog) F. J. Hermann, 1976.

E. pringlei Cardot, Rev. Bryol. 37: 11. 1910.
Other use: *Platygyriella pringlei* (Cardot) Buck, 1984.

E. subfalcatum Dixon in Lazarenko, Bot. Zhurn. (Kiev) 2: 185. 1945.
Type: U.S.S.R. Herbarium not specified by author. Several syntypes cited.
Note: treated as invalid, no Latin description (Article 36.1), in Index Muscorum and cited from "USSR Ac. Sc. Bot. Zhurn. 43: 611. 1958."

Erythrophyllopsis Brotherus in Herzog, 1916.
E. andina (Sullivant) Zander, Bryologist 80: 159. 1977.
Basionym: *Trichostomum andinum* Sullivant, 1859.

***Erythrophyllum** (Lindberg in Braithwaite) Loeske, 1908.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Erythrophyllum* J. Agardh, 1872.
Correct name: *Bryoerythrophyllum* Chen Pan-chieh, 1941.
E. barbuloides Herzog, Hedwigia 65: 154. 1925.
Other use: *Barbula barbuloides* (Herzog) U. Mizushima, 1971.

Eucamptodon Montagne, 1845.
E. ciliatus Bescherelle, Ann. Sci. Nat. Bot., ser. 5, 18: 195. 1873.
Other use: *Parisia ciliata* (Bescherelle) Tixier, 1985 [1986].
E. laevipilus Cardot & Thériot in Thériot, Diagn. Esp. Var. Nouv. Mouss. 8: 1. 1910.
Other use: *Parisia laevipila* (Cardot & Thériot in Thériot) Tixier, 1985 [1986].
E. muelleri Hampe & C. Müller, 1870.
E. muelleri var. *norrisii* B. H. Allen, J. Hattori Bot. Lab. 62: 96. 1987.
Type: Australia. Queensland: Yallnungala Falls from Main Border Track, SE of O'Reilly Guest House, *Norris 34806A*. Holotype: CINC; isotype: HSC.
E. novae-guineae Dixon, Farlowia 1: 29. 1943.
Other use: *Dicnemon novae-guineae* (Dixon) B. H. Allen, 1987.
E. robbinsii E. B. Bartram, Brittonia 11: 88. 1959.
Other use: *Dicnemon robbinsii* (E. B. Bartram) B. H. Allen, 1987.

Eucamptodontopsis Brotherus in Engler & Prantl, 1924.
E. tortuosa H. Robinson, Acta Bot. Venez. 1: 74. f. 1-5. 1965.
Type: Venezuela. Bolivar: Cerro Venamo, fila oeste del afluente derecho (oeste), subiendo el Rio Venamo, 1000 m, *Steyermark & Dunsterville 92264*. Holotype: US; isotype: VEN.

Eucladium Bruch & W. P. Schimper in B.S.G., 1846.
E. verticillatum (Bridel) Bruch & W. P. Schimper in B.S.G., 1846.
E. verticillatum var. *recurvatum* Kurt von der Dunk & Klaus von der Dunk, Herzogia 2: 419. f. 1-9. 1973.
Type: Yugoslavia. Postojna, *von der Dunk & von der Dunk*, 1972. Holotype: B; isotype: herb. Dunk.

Eulacophyllum Buck & Ireland, Nova Hedwigia 41: 108. 1985.
Type: *Hypnum cultelliforme* Sullivant, *E. cultelliforme* (Sullivant) Buck & Ireland, holotype.
Original placement: Stereophyllaceae.
E. cultelliforme (Sullivant) Buck & Ireland, Nova Hedwigia 41: 108. 1985.
Basionym: *Hypnum cultelliforme* Sullivant, 1861.

Euptychium W. P. Schimper, 1865.
E. sect. *Crassisubulata* During, Bryoph. Biblioth. 12: 64. 1977.
Type: *Pilotrichum setigerum* Sullivant, *E. setigerum* (Sullivant) Brotherus, holotype.
E. setigerum (Sullivant) Brotherus, 1906.
E. setigerum subsp. *austrocaledonicum* (Bescherelle) During, Bryoph. Biblioth. 12: 71. 1977.
Basionym: *Garovaglia austrocaledonica* Bescherelle, 1873.

Eurhynchium Bruch & W. P. Schimper in B.S.G., 1854.
E. subgen. *Oxyrrhynchium* W. P. Schimper in B.S.G., 1854.
Note: rank assigned in Index Muscorum 2: 245. 1962; H. Robinson, Bryologist 65: 136. 1962 [1963], later treated the B.S.G. infragenus as a section and raised it to subgeneric rank.
E. subgen. *Platyhypnidium* (Fleischer) H. Robinson, Bryologist 65: 136. 1962 [1963].
Basionym: *Platyhypnidium* Fleischer, 1923.
E. subgen. *Stokesiella* Kindberg, Eur. N. Amer. Bryin. 1: 93. 1897.
Other use: *Stokesiella* (Kindberg) H. Robinson, 1967.
E. africanum Herzog, Repert. Spec. Nov. Regni Veg. 41: 288. pl. 235: i-l. 1937.
Other use: *Kindbergia africana* (Herzog) Ochyra in Ochyra & Pócs, 1982.
E. africanum var. *latifolium* Demaret & J. Leroy, Explor. Parc Natl. Albert, Mission Lebrun 6: 52. f. 55-57. 1944.
Other use: *Kindbergia africana* var. *latifolia* (Demaret & J. Leroy) Ochyra in Ochyra & Pócs, 1982.
Note: not in Index Muscorum.
E. angustirete (Brotherus) T. Koponen, Memoranda Soc. Fauna Fl. Fennica 43: 53. 1967.
Basionym: *Brachythecium angustirete* Brotherus, 1929.
E. arbuscula Brotherus, Nat. Pflanzenfam. 1(3): 1157. f. 816. 1909.
Other use: *Kindbergia arbuscula* (Brotherus) Ochyra, 1982, *Stokesiella arbuscula* (Brotherus) H. Robinson, 1967.
E. arbuscula var. *acuminatum* Takaki, J. Hattori Bot. Lab. 16: 30. f. 39: 13-17. 1956.
Other use: *Kindbergia arbuscula* var. *acuminata* (Takaki) Ochyra, 1982, *Stokesiella arbuscula* var. *acuminata* (Takaki) Takaki & Iwatsuki in Iwatsuki & Noguchi, 1973.
E. brittoniae Grout, Bull. Torrey Bot. Club 25: 248. 1898.
Other use: *Bryhnia brittoniae* (Grout) H. Robinson, 1962 [1963], *Kindbergia brittoniae* (Grout) Ochyra, 1982, *Stokesiella brittoniae* (Grout) H. Robinson, 1967.
**E. cirrosum* (Schwägrichen) Husnot, 1873.
*illegitimate, later homonym.

Eurhynchium, continued.

E. cirrosum var. *histrio* Amann, Bull. Soc. Vaud. Sci. Nat. 55: 147. 1925.
Replaced name: *Cirriphyllum histrio* Culmann in Amann, 1919.
Other use: *Brachythecium cirrosum* var. *histrio* (Amann) Wijk & Margadant, 1968.
Note: new name, based on adoption of earlier epithet (Aritcle 72.Note 1).

E. colpophyllum Sullivant, Icon. Musc. Suppl. 95. pl. 71. 1874.
Other use: *Scleropodium touretii* var. *colpophyllum* (Sullivant) E. Lawton ex H. Crum, 1969.

E. cucullatum (Mitten) Steere & G. A. M. Scott, J. Bryol. 7: 605. 1973 [1974].
Basionym: *Hypnum cucullatum* Mitten, 1856.

E. delicatulum (Sakurai) Iwatsuki & Noguchi, J. Jap. Bot. 48: 215. 1973.
Basionym: *Platyhypnidium delicatulum* Sakurai, 1932.

E. flavidulum (Dusén) Ochyra, J. Bryol. 14: 458. 1987.
Basionym: *Sciaromium flavidulum* Dusén, 1905.

E. macroneuron (Grout) H. Crum, Bryologist 72: 242. 1969.
Basionym: *Hygroamblystegium macroneuron* Grout, 1933.

E. magnusii (H. Winter in Warnstorf) Pilous, Preslia 37: 24. 1965.
Basionym: *Eurhynchium striatum* var. *magnusii* H. Winter in Warnstorf, 1870.

E. muelleri (Jaeger) E. B. Bartram, 1933.

E. muelleri var. *kiusianum* (Sakurai) Iwatsuki & Noguchi, J. Jap. Bot. 48: 215. 1973.
Basionym: *Hygrohypnum kiusianum* Sakurai, 1932.

E. nipponense (Sakurai) Iwatsuki & Noguchi, J. Jap. Bot. 48: 216. 1973.
Basionym: *Stereophyllum nipponense* Sakurai, 1934.

E. praelongum (Hedwig) W. P. Schimper in B.S.G., 1854.

E. praelongum var. *californicum* Grout, Bull. Torrey Bot. Club 25: 248. 1898.
Other use: *Kindbergia praelonga* var. *californica* (Grout) Ochyra, 1982, *Stokesiella praelonga* var. *californica* (Grout) H. Crum, 1969.

E. praelongum var. *distans* Nyholm, Ill. Moss Fl. Fennoscandia. II. Musci 776. 1969.
Replaced name: *Hypnum distans* Lindberg, 1879.
Blocking name: *Hypnum distans* Bridel, 1812.
Note: new name, based on adoption of earlier epithet (Article 72.Note 1); invalid, replaced name not cited (Article 33.2), in Ill. Moss Fl. Fennoscandia. II. Musci 520. 1965.

E. praelongum var. *inundatum* Bottini, Boll. Soc. Bot. Ital. 1903: 9. 1903.
Other use: *Kindbergia praelonga* var. *inundata* (Bottini) Ochyra, 1982.

E. praelongum var. *laxirete* Renauld & Cardot, Bull. Herb. Boissier, sér. 2, 2: 439. 1902.
Other use: *Kindbergia praelonga* var. *laxiretis* (Renauld & Cardot) Ochyra, 1982.

E. praelongum var. *tenellum* M. Lange, Bot. Tidsskr. 3: 33. 1869.
Other use: *Kindbergia praelonga* var. *tenella* (M. Lange) Ochyra, 1982.

Eurhynchium, continued.

E. pringlei (Cardot) H. Crum & L. E. Anderson, Mosses E. N. Amer. 2: 1074. 1981.

Basionym: *Rhynchostegium pringlei* Cardot, 1910.

E. pulchellum (Hedwig) Jennings, 1913.

E. pulchellum var. *barnesii* (Renauld & Cardot) H. Crum, Steere & L. E. Anderson, Bryologist 68: 432. 1965 [1966].

Basionym: *Eurhynchium strigosum* var. *barnesii* Renauld & Cardot, 1888.

**E. pulchellum* fo. *depressum* Nyholm, Ill. Moss Fl. Fennoscandia. II. Musci 518. f. 337. 1965.

*invalid, no Latin description (Article 36.1).

E. pulchellum subsp. *substrigosum* (Kindberg in Macoun & Kindberg) Persson in Persson & Viereck, Lindbergia 9: 16. 1983.

Basionym: *Eurhynchium substrigosum* Kindberg in Macoun & Kindberg, 1892.

E. pulchellum subsp. *tatricum* Pilous, Preslia 37: 17. f. 2. 1965.

Type: Czechoslovakia. Belanske Tatry, Mont. Novy, *Pilous s.n.* Herbarium not specified by author.

E. riparioides (Hedwig) Richards, 1937.

E. riparioides var. *coreanum* (Cardot) Hong & Ando, Biol. Inst. Catholic Med. Coll., Seoul 3: 388. 1959.

Basionym: *Rhynchostegium rusciforme* var. *coreanum* Cardot, 1912.

Note: not in Index Muscorum.

E. savatieri W. P. Schimper ex Bescherelle, 1893.

E. savatieri var. *arachnoideum* (Sakurai) Takaki, Noguchi & Iwatsuki in Iwatsuki & Noguchi, J. Jap. Bot. 48: 216. 1973.

Basionym: *Oxyrrhynchium arachnoideum* Sakurai, 1937.

E. savatieri var. *satsumense* (Sakurai) Takaki, Noguchi & Iwatsuki in Iwatsuki & Noguchi, J. Jap. Bot. 48: 216. 1973.

Basionym: *Oxyrrhynchium satsumense* Sakurai, 1932.

E. semiscabrum E. B. Bartram, Bryologist 49: 120. 1946.

Other use: *Rhynchostegium semiscabrum* (E. B. Bartram) H. Robinson, 1967.

E. speciosum (Bridel) Juratzka, 1863.

E. speciosum var. *angustifolium* Størmer, Aarbok Univ. Bergen, Mat.-Naturvitensk. Ser. 1963(11): 25. f. 6: a-h. 1963.

Type: Iran. Elburg Mts., Teheran area, near Pasqaleh in valley above Darband, 1800 m, *Wendelbo 2260*. Holotype: BG.

E. stokesii (Turner) W. P. Schimper in B.S.G., 1854.

E. stokesii var. *congoanum* Thériot, Rev. Bryol., n.s. 3: 42. 1930.

Other use: *Kindbergia praelonga* var. *congoana* (Thériot) Ochyra, 1982.

E. stokesii var. *distichophyllum* H. Winter, Hedwigia 55: 123. 1914.

Other use: *Kindbergia praelonga* var. *distichophylla* (H. Winter) Ochyra, 1982.

Eurhynchium, continued.

E. stokesii var. *teneriffae* Renauld & Cardot, Bull. Herb. Boissier, sér. 2, 5: 439. pl. 7: f. 15-17. 1905.

Other use: *Oxyrrhynchium praelongum* fo. *teneriffae* (Renauld & Cardot) Düll, 1980.

E. striatum (Schreber ex Hedwig) W. P. Schimper, 1856.

E. striatum var. *magnusii* H. Winter in Warnstorf, Verh. Bot. Vereins Prov. Brandenburg 12: 72. 1870.

Other use: *Eurhynchium magnusii* (H. Winter in Warnstorf) Pilous, 1965.

**E. strigosum* (G. F. Hoffmann ex Weber & D. Mohr) W. P. Schimper in B.S.G., 1854.

*illegitimate, type of earlier name included (Article 63.1).

E. strigosum var. *barnesii* Renauld & Cardot, Rev. Bryol. 15: 72. 1888.

Other use: *Eurhynchium pulchellum* var. *barnesii* (Renauld & Cardot) H. Crum, Steere & L. E. Anderson, 1965 [1966].

E. substrigosum Kindberg in Macoun & Kindberg, Cat. Canad. Pl., Musci 205. 1892.

Other use: *Eurhynchium pulchellum* subsp. *substrigosum* (Kindberg in Macoun & Kindberg) Persson in Persson & Viereck, 1983.

E. tenuinerve (Cardot) Iwatsuki & Noguchi, J. Jap. Bot. 48: 216. 1973.

Basionym: *Rhynchostegium tenuinerve* Cardot, 1912.

Eurohypnum Ando, Bot. Mag. (Tokyo) 79: 760. 1966.

Type: *Cupressina leptothalla* C. Müller, *E. leptothallum* (C. Müller) Ando, holotype.

Original placement: Hypnaceae.

E. leptothallum (C. Müller) Ando, Bot. Mag. (Tokyo) 79: 761. 1966.

Basionym: *Cupressina leptothalla* C. Müller, 1896.

E. leptothallum var. *tereticaule* (C. Müller) Gao Chien & Chang Kung-chu, J. Hattori Bot. Lab. 54: 194. 1983.

Basionym: *Cupressina tereticaulis* C. Müller, 1896.

Exostratum L. Ellis, Lindbergia 11: 22. 1985.

Type: *Syrrhopodon blumii* Nees ex Hampe, *E. blumii* (Nees ex Hampe) L. Ellis, holotype.

Original placement: Calymperaceae.

E. asperum (Mitten) L. Ellis, Lindbergia 11: 32. 1985.

Basionym: *Octoblepharum asperum* Mitten, 1868.

E. asperum var. *papillosum* (Mitten) L. Ellis, Lindbergia 11: 34. 1985.

Basionym: *Octoblepharum papillosum* Mitten, 1868.

E. blumii (Nees ex Hampe) L. Ellis, Lindbergia 11: 25. 1985, "*blumei*."

Basionym: *Syrrhopodon blumii* Nees ex Hampe, 1847.

E. scolopendrium (Mitten) L. Ellis, Lindbergia 11: 35. 1985.

Basionym: *Syrrhopodon scolopendrius* Mitten, 1861.

E. sullivantii (Dozy & Molkenboer) L. Ellis, Lindbergia 11: 29. 1985.

Basionym: *Syrrhopodon sullivantii* Dozy & Molkenboer, 1856.

Fabronia Raddi, 1808.

F. anacamptodens Gao Chien in Gao Chien, Zhang Man-xiang & Cao Tong, Acta Bot. Yunnan. 3: 397. f. 7: 1-12. 1981.
Type: China. Xizang: Districtus Lhunze Xian, Sangngagquiling, *Zang 15*. Holotype: IFP; isotype: KUN.

F. bizotii Pócs in Bizot & Pócs, Acta Bot. Acad. Sci. Hung. 28: 44. 1982.
Replaced name: *Fabronia pocsii* var. *cameruniae* Bizot, 1973.
Blocking name: *Fabronia cameruniae* C. Müller ex Dusén, 1895.

F. ciliaris (Bridel) Bridel, 1827.

F. ciliaris var. *polycarpa* (W. J. Hooker) Buck, Brittonia 35: 251. 1983.
Basionym: *Fabronia polycarpa* W. J. Hooker, 1818.

F. ciliaris var. *wrightii* (Sullivant in Sullivant & Lesquereux) Buck, Brittonia 35: 249. 1983.
Basionym: *Fabronia wrightii* Sullivant in Sullivant & Lesquereux, 1856 [1857].

F. enervis Brotherus, Akad. Wiss. Wien Sitzungsber., Math.-Naturwiss. Kl., Abt. 1, 133: 580. 1924.
Other use: *Cephalocladium enerve* (Brotherus) A. L. Abramova & I. I. Abramov, 1981.

**F. enervis* Herzog, Rev. Bryol. Lichénol. 29: 201. f. 6. 1960.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Fabronia enervis* Brotherus, 1924.
Other use: *Mahua enervis* Buck, 1983.

F. microspora Gao Chien in Gao Chien, Zhang Man-xiang & Cao Tong, Acta Bot. Yunnan. 3: 396. f. 6: 1-13. 1981.
Type: China. Xizang: Districtus Lhunze Xian, Sangngagquiling, *Zang 1407a*. Holotype: IFP; isotype: KUN.

F. papillidens Gao Chien in Gao Chien, Zhang Man-xiang & Cao Tong, Acta Bot. Yunnan. 3: 397. f. 6: 14-23. 1981.
Type: China. Xizang: Districtus Qayu, *Zang 1195*. Holotype: IFP; isotype: KUN.

F. pocsii Bizot, Acta Bot. Acad. Sci. Hung. 18: 16. f. 5: 1-2. 1973.
Type: Cameroun. Mt. Cameroun, 2900 m, *Balazs s.n.* Holotype: DI; isotype: EGR. "79" in protologue is collection locality, not collection number.

F. pocsii var. *cameruniae* Bizot, Acta Bot. Acad. Sci. Hung. 18: 16. f. 5: 3. 1973.
Type: Cameroun. Mt. Cameroun, 2900 m, *Balazs s.n.* Holotype: DI; isotype: EGR. "79" in protologue is collection locality, not collection number.
Other use: *Fabronia bizotii* Pócs in Bizot & Pócs, 1982.

F. polycarpa W. J. Hooker, Musci Exot. 1: 3. pl. 3. 1818.
Other use: *Fabronia ciliaris* var. *polycarpa* (W. J. Hooker) Buck, 1983.

F. tahitensis Nadeaud, Énum. Pl. Tahiti 14. 1873.
Note: not in Index Muscorum.

F. wrightii Sullivant in Sullivant & Lesquereux, Musci Bor.-Amer. 54. 1856 [1857].
Other use: *Fabronia ciliaris* var. *wrightii* (Sullivant in Sullivant & Lesquereux) Buck, 1983.

Fabronidium C. Müller, 1899.
F. guatemaliense (C. Müller) Buck, Brittonia 33: 474. 1981.
Basionym: *Schwetschkea guatemaliensis* C. Müller, 1875.

Fauriella Bescherelle, 1893.
F. baolocensis Tixier, Rev. Bryol. Lichénol. 34: 155. f. 17. 1966.
Type: Vietnam. Bao-Loc, *Tixier s.n.* Herbarium not specified by author.
F. petelotii Tixier, Rev. Bryol. Lichénol. 34: 154. f. 16. 1966.
Type: Vietnam. Chapa, *Petelot 110 p.p.* Herbarium not specified by author.

Felipponea Brotherus in Felippone, 1912.
F. esquirolii (Thériot) Akiyama, J. Jap. Bot. 63: 265. 1988.
Basionym: *Leucodon esquirolii* Thériot, 1907.

Fissidens Hedwig, 1801.
F. sect. *Aloma* C. Müller, Gen. Musc. Frond. 61. 1900.
Other use: *Fissidens* subsect. *Aloma* (C. Müller) Grout, 1936.
F. subsect. *Aloma* (C. Müller) Grout, Moss Fl. N. Amer. 1: 8. 1936.
Basionym: *Fissidens* sect. *Aloma* C. Müller, 1900.
Note: redundant combination in Norkett in R. S. Chopra & S. S. Kumar, Ann. Cryptog. Exot. 5: 37. 1981.
**F.* sect. *Alomaria* Norkett in R. S. Chopra & S. S. Kumar, Ann. Cryptog. Phytopathol. 5: 37. 1981.
*illegitimate, types of earlier names included (Article 63.1).
Note: the earlier names *Fissidens* sect. *Aloma* C. Müller (1900), *F.* sect. *Conomitrium* C. Müller (1900), and *F.* sect. *Crenularia* C. Müller (1900) were all cited as synonyms.
F. subsect. *Bryolimbidium* Norkett in Gangulee, Mosses E. India 2: 455. 1971.
Type: *F. bilaspurense* Gangulee, holotype.
F. subsect. *Multipapillatae* (Norkett in Gangulee) R. S. Chopra & S. S. Kumar, Ann. Cryptog. Phytopathol. 5: 36. 1981.
Basionym: *Fissidens* subser. *Multipapillatae* Norkett in Gangulee, 1972.
F. subser. *Multipapillatae* Norkett in Gangulee, Mosses E. India 3: 567. 1972.
Type: *F. ceylonensis* Dozy & Molkenboer, holotype.
Other use: *Fissidens* subsect. *Multipapillatae* (Norkett in Gangulee) R. S. Chopra & S. S. Kumar, 1981.
Note: invalid, holotype not indicated (Article 37.1), in Mosses E. India 2: 456. 1971.
F. sect. *Pachylomidium* C. Müller, Gen. Musc. Frond. 60. 1900.
Other use: *Fissidens* subsect. *Pachylomidium* (C. Müller) Norkett in Gangulee, 1971.
F. subsect. *Pachylomidium* (C. Müller) Norkett in Gangulee, Mosses E. India 2: 454. 1971.
Basionym: *Fissidens* sect. *Pachylomidium* C. Müller, 1900.

Fissidens, continued.

F. subgen. *Sarawakia* (C. Müller) Iwatsuki & H. Hara, Origin Evol. Div. Pl. & Pl. Comm. 140. 1985.
Basionym: *Conomitrium* sect. *Sarawakia* C. Müller, 1900.

**F.* ser. *Semilimbidium* Norkett in Gangulee, Mosses E. India 2: 455. 1971.
*invalid, single element not cited as holotype (Article 37.3).
Type: no element cited by author.

F. ser. *Subcrenularia* Norkett in Gangulee, Mosses E. India 2: 567. 1971.
Type: *F. kalimpongensis* Gangulee, holotype.
Other use: *Fissidens* subsect. *Subcrenularia* (Norkett in Gangulee) Norkett in R. S. Chopra & S. S. Kumar, 1981.
Note: invalid, holotype not indicated (Article 37.1), in Mosses E. India 2: 456. 1971.

F. subsect. *Subcrenularia* (Norkett in Gangulee) Norkett in R. S. Chopra & S. S. Kumar, Ann. Cryptog. Phytopathol. 5: 37. 1981.
Basionym: *Fissidens* ser. *Subcrenularia* Norkett in Gangulee, 1971.

F. subsect. *Unipapillatae* (Norkett in Gangulee) Norkett in R. S. Chopra & S. S. Kumar, Ann. Cryptog. Phytopathol. 5: 36. 1981.
Basionym: *Fissidens* subser. *Unipapillatae* Norkett in Gangulee, 1971.

F. subser. *Unipapillatae* Norkett in Gangulee, Mosses E. India 2: 567. 1971.
Type: *F. ranchiensis* Gangulee, holotype.
Other use: *Fissidens* subsect. *Unipapillatae* (Norkett in Gangulee) Norkett in R. S. Chopra & S. S. Kumar, 1981.
Note: invalid, holotype not indicated (Article 37.1), in Mosses E. India 2: 455. 1971.

F. abruptus (Brotherus) Brotherus ex Pursell, Bryologist 82: 60. 1979.
Basionym: *Moenkemeyera abrupta* Brotherus, 1900.

F. aegrotus Bizot, Rev. Bryol. Lichénol. 42: 846. 1976.
Type: Tanzania. S. Uluguru Mts., Mgeta Stream, E edge Lukwangule Plateau, 2300-2380 m, *Pócs & Kornas 6822*. Holotype: herb. Bizot; isotype: herb. Pócs.
Original placement: sect. *Amblyothallia*.

F. afissidens Bruggeman-Nannenga in Bruggeman-Nannenga & Berendsen in Bruggeman-Nannenga, Syst. Stud. Fissidens 158. 1988.
Replaced name: *Moenkemeyera minutifolia* C. Müller, 1900.
Blocking name: *Fissidens minutifolius* Brotherus & Potier de la Varde, 1926.

F. ake-assii Bizot & Dury in Bizot, Rev. Bryol. Lichénol. 42: 853. 1976.
Type: Dahomey. Tangueta, *Ake-Assi 12382*. Herbarium not specified by authors.

F. alanii Gangulee, Mosses E. India 2: 487. f. 225. 1971, "*allanii*."
Type: India. Kalimpong, Algarah, ca. 1600 m, *Gangulee 745*. Holotype: "Bryotheca Ganguleei."

F. amazonicus Pursell, Beih. Nova Hedwigia 90: 345. f. 1-7, 21-22, 26. 1988.
Type: Brazil. Amazonas: Igarape Ia-Mirim, *Yano 1990*. Holotype: SP; isotype: PAC.

Fissidens, continued.

F. ambiguus Bizot ex Pócs, Fol. Hist. Nat. Mus. Matr. 4: 29. 1976-77 [1977].
Type: Tanzania. W. Usambara Mts., near Lushoto, *Pócs & Pócs 6205/A*. Holotype: EGR; isotype: DSM, herb. Bizot.
Original placement: sect. *Semilimbidium*.
Note: invalid, holotype not indicated (Article 37.1), in Rev. Bryol. Lichénol 40: 130. 1974.

F. andicola (Herzog) Bruggeman-Nannenga in Bruggeman-Nannenga & Berendsen in Bruggeman-Nannenga, Syst. Stud. Fissidens 158. 1988.
Basionym: *Simplicidens andicola* Herzog, 1910.

F. aoraiensis H. O. Whittier & H. A. Miller, Bryologist 70: 87. f. 72-82. 1967.
Type: Tahiti. Pirae District, Mt. Aorai, valley W of Chalet Fare Ata, 1700 m, *Whittier 2883*. Holotype: NY; isotypes: BISH, G, MU .

F. aphelotaxifolius Pursell, Bull. Torrey Bot. Club 103: 35. f. 1-15. 1976.
Type: Canada. British Columbia: Queen Charlotte Islands, Upper Victoria Lake, Moresby Island, *Schofield 30787*. Holotype: UBC; isotype: DUKE.
Other indicated distribution: U.S.A. (California, Washington).

F. appalachensis Zander, Bryologist 72: 406. f. 1-8. 1969.
Type: U.S.A. North Carolina: Caldwell Co., 0.7 mile S of Caldwell-Watauga county line, Dixon Creek at junction with US 221, 4000 feet, *Zander & Pravda 3345*. Holotype: DUKE.

F. arabicus Pursell & Kürschner, Nova Hedwigia 44: 101. 1987.
Type: Saudi Arabia. Asir Mts., Biljurshi Richtung Maquas, 780 m, *Kürschner & Konig 82-2150*. Holotype: B; isotypes: E, PAC, herb. Frey, herb. Kürschner.

**F. aristatus* Sim, Trans. Roy. Soc. South Africa 15: 200. illustration. 1926.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Fissidens aristatus* Brotherus, 1916.
Correct name: *Fissidens simii* Schelpe in Magill & Schelpe, 1979.

F. arnigadhensis Brotherus ex S. S. Kumar, Misc. Bryol. Lichenol. 8: 118. f. 1. 1979.
Type: India. Uttar Pradesh: Mussoorie, 2300 m, *Norkett 3583*. Holotype: BM.
Original placement: sect. *Semilimbidium* subsect. *Subcrenularia*.

F. asperifolius Brotherus & Fleischer in Fleischer, 1899.

F. asperifolius var. *cambodianus* Tixier, Bryoph. Biblioth. 18: 21. 1979, "*cambodiana*."
Type: Cambodia. Piste du Pouvankhone, 900 m, *Tixier 3442*. Holotype: herb. Tixier.

F. asperisetus Sande Lacoste, 1872.

F. asperisetus var. *andamanensis* Gangulee, Mosses E. India 2: 507. 1971.
Type: India. North Andaman, Diglipur, *Gangulee 5453*. Holotype: "Bryotheca Ganguleei."

**F. asperisetus* fo. *major* Gangulee, Mosses E. India 2: 509. f. 238. 1971.
*invalid, no Latin description (Article 36.1).

Fissidens, continued.

F. asselii Bizot, Rev. Bryol. Lichénol. 40: 130. 1974.
Type: Central African Republic. Botanga, *Assel 427*. Holotype: herb. Bizot.
Original placement: sect. *Semilimbidium*.

F. auriculatus C. Müller, Linnaea 37: 166. 1872.
Other use: *Fissidens sylvaticus* var. *auriculatus* (C. Müller) Gangulee, 1971.

F. austroamericanus Pursell & W. D. Reese, Brittonia 37: 355. f. 1. 1985.
Type: Surinam. Saramacca-oever, tussen Kwakoegron en Doorsnee, *Florschütz & Florschütz 1105A*. Holotype: U. Other indicated distribution: Brazil.

F. azoricus (Potier de la Varde) Bizot, Rev. Bryol. Lichénol. 40: 110. 1974.
Basionym: *Fissidens ovatus* var. *azoricus* Potier de la Varde, 1946.
Note: redundant combination in Rev. Bryol. Lichénol 42: 852. 1976.

F. bishopii Hoe, Bryologist 75: 85. f. 2-4. 1972.
Type: U.S.A. Hawaii: Oahu, Punaluu, along Castle Trail, *Hoe 521.0*. Holotype: BISH; isotype: MICH.

F. boninensis Iwatsuki in H. Inoue & Iwatsuki, Bull. Natl. Sci. Mus. 12: 294. f. 1. 1969.
Type: Japan. Bonin Islands: Chichijima, Mt. Chuo, 100-300 m, *Inoue 18819*. Holotype: TNS; isotype: NICH.

F. bonnotii Bizot, Rev. Bryol. Lichénol. 40: 131. 1974.
Replaced name: *Fissidens subelimbatus* var. *crispus* Potier de la Varde, 1931.
Blocking name: *Fissidens crispus* Montagne, 1838.
Note: republished in Rev. Bryol. Lichénol 42: 852. 1976.

F. borealis Gao Chien, Fl. Musc. Chin. Boreali-Orient. 378. f. 66: 1-4. 1977.
Type: China. Heilongjiang: Districtus Fuyuan, *Gao 6282*. Holotype: IFP.
Original placement: subgen. *F.* sect. *Bryoidium*.

F. brevidorsus Dixon, Anniv. Vol. Bot. Gard. Calcutta 177. 1942.
Original placement: sect. *Bryoideum*.
Note: not in Index Muscorum.

F. bryoides Hedwig, 1801.

F. bryoides var. *esquirolii* (Thériot) Iwatsuki & Tadashi Suzuki, J. Hattori Bot. Lab. 51: 361. 1982.
Basionym: *Fissidens esquirolii* Thériot, 1908.

F. bryoides var. *lateralis* (Brotherus) Iwatsuki & Tadashi Suzuki, J. Hattori Bot. Lab. 51: 363. 1982.
Basionym: *Fissidens lateralis* Brotherus, 1899.

F. bryoides var. *ramosissimus* Thériot, Ann. Cryptog. Exot. 5: 167. 1932.
Note: redundant combination in Iwatsuki & Tadashi Suzuki, J. Hattori Bot. Lab. 51: 359. 1982.

F. bryoides subsp. *schmidii* (C. Müller) Norkett in Gangulee, Mosses E. India 2: 471. 1971.
Basionym: *Fissidens schmidii* C. Müller, 1853.

F. bryoides var. *schmidii* (C. Müller) R. S. Chopra & S. S. Kumar, Ann. Cryptog. Phytopathol. 5: 43. 1981.
Basionym: *Fissidens schmidii* C. Müller, 1853.

Fissidens, continued.

F. bryoides fo. *subimpar* (Lindberg in Lindberg & H. Arnell) Smirnova, Novosti Sist. Niz. Rast. 6: 255. 1969 [1970].
Basionym: *Schistophyllum bryoides* var. *subimpar* Lindberg in Lindberg & H. Arnell, 1890.

F. bryoides fo. *varius* (Lindberg in Lindberg & H. Arnell) Smirnova, Novosti Sist. Niz. Rast. 6: 255. 1969 [1970].
Basionym: *Schistophyllum bryoides* var. *varium* Lindberg in Lindberg & H. Arnell, 1890.

F. bryoides fo. *viridulus* (Swartz) R. S. Chopra & S. S. Kumar, Ann. Cryptog. Phytopathol. 5: 43. 1981.
Basionym: *Dicranum viridulum* Swartz, 1801.

F. buckii Pursell, Bryologist 88: 74. f. 6-11. 1985.
Type: Puerto Rico. Cordillera Central, Reserva Forestal Maricao, trail leading from Hwy 120 at km 14 to river below, *Buck 3884*. Holotype: NY; isotype: PAC.

**F. cadetii* Bizot, Rev. Bryol. Lichénol. 40: 110. pl. 5: a-b. 1974.
*invalid, single element not cited as holotype (Article 37.3).
Type: Reunion. St. Philippe, *Cadet 361*. Herbaria: "herbiers Cadet et Bizot."
Original placement: subgen. *Pachyfissidens*.

F. capillisetoides Bruggeman-Nannenga, Proc. Kon. Ned. Akad. Wetensch., Ser. C, Biol. 71: 176. f. 2. 1973.
Type: Brazil. Minas Gerais: Caldas, *Lindberg s.n.* Holotype: L; isotype: H.
Original placement: sect. *Pachylomidium*.

F. capriviensis Magill, Fl. S. Africa, Bryophyta, Mosses 1: 45. f. 9: 1-7. 1981 [1982].
Type: Namibia. Caprivi Strip, *Vahrmeijer 122*. Holotype: PRE; isotypes: MO, NY.
Original placement: sect. *Areofissidens*.

F. celticus Paton, Trans. Brit. Bryol. Soc. 4: 780. f. 2. 1965.
Type: United Kingdom. Cornwall, Hustyn Wood, St. Breock near Wadebridge, *Paton*, 1963. Holotype: OXF.
Original placement: sect. *Aloma*.

F. centrafricanus Bizot, Rev. Bryol. Lichénol. 40: 131. 1974.
Replaced name: *Fissidens circinatulus* Paris, 1908.
Blocking name: *Fissidens circinatulus* Bescherelle, 1901.
Note: republished in Rev. Bryol. Lichénol 42: 852. 1976.

F. ceylonensis Dozy & Molkenboer, 1844.

F. ceylonensis subsp. *simplex* Fleischer, Musci Buitenzorg 1: 31. 1904.
Other use: *Fissidens ceylonensis* var. *simplex* (Fleischer) Norkett in Gangulee, 1971.

F. ceylonensis var. *simplex* (Fleischer) Norkett in Gangulee, Mosses E. India 2: 514. 1971.
Basionym: *Fissidens ceylonensis* subsp. *simplex* Fleischer, 1904.

Fissidens, continued.

**F. circinatulus* Paris, Rev. Bryol. 35: 1. 1908.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Fissidens circinatulus* Bescherelle, 1901.
Correct name: *Fissidens centrafricanus* Bizot, 1974.

F. closteroides Iwatsuki, J. Jap. Bot. 39: 183. f. 2. 1964.
Type: Philippines [Negros]. Dumaguett City, *Verom*, 1961. Herbarium not specified by author.
Original placement: sect. *Aloma*.

F. coacervatus Bruggeman-Nannenga, Proc. Kon. Ned. Akad. Wetensch., Ser. C, Biol. 88: 194. f. 3. 1985.
Type: Madeira. Numa grande furna da Potinha, interieurs suintants d'une grotte, *Costa*, 1936. Holotype: PC.

F. crassinervis Sande Lacoste, 1872.

F. crassinervis var. *laxus* (Sullivant & Lesquereux) A. Eddy, Handb. Malesian Mosses 1: 70. 1988.
Basionym: *Fissidens laxus* Sullivant & Lesquereux, 1859.

F. crassipes Wilson ex Bruch & W. P. Schimper in B.S.G., 1849.

F. crassipes var. *rekaensis* Pilous in Grom, Nova Hedwigia 5: 477. 1963.
Type: Yugoslavia. Reka River, *Grom 15*. Holotype: herb. Grom.

F. crassipes subsp. *warnstorfii* (Fleischer) Bruggeman-Nannenga, Proc. Kon. Ned. Akad. Wetensch., Ser. C, Biol. 85: 74. 1982.
Basionym: *Fissidens warnstorfii* Fleischer, 1896.

F. cremersii Bizot & Onraedt in Bizot, Rev. Bryol. Lichénol. 42: 846. 1976.
Type: Madagascar. Au nord de Maromandia, *Cremers 2734*. Holotype: herb. Bizot; isotype: herb. Onraedt.
Original placement: sect. *Aloma*.

F. crenulatus Mitten, 1859.

F. crenulatus var. *elmeri* (Brotherus) Iwatsuki & Tadashi Suzuki, J. Hattori Bot. Lab. 51: 386. 1982.
Basionym: *Fissidens elmeri* Brotherus, 1909.

F. crenulatus var. *pursellii* (Lin Shan-Hsiung) Chiang Tzen-yuh & Kuo Chen-meng, Taiwania 34: 100. 1989.
Basionym: *Fissidens pursellii* Lin Shan-Hsiung, 1984.

F. crenulatus var. *titalyanus* (C. Müller) Gangulee, Mosses E. India 2: 506. 1971.
Basionym: *Fissidens titalyanus* C. Müller, 1872.

F. crumii Hoe, Bryologist 75: 84. f. 1. 1972.
Type: U.S.A. Hawaii: Oahu, Punaluu Valley, Castle Trail, *Hoe 518.0*. Holotype: BISH; isotype: MICH.

F. cucullatus Stone, J. Bryol. 15: 737. f. 1. 1989.
Type: Australia. New South Wales: Bradleys Head in Sydney region, *Whitelegge*, 1913. Holotype: NSW.

F. curvatoinvolutus Dixon, Notes Roy. Bot. Gard. Edinburgh 19: 279. 1938.
Other use: *Fissidens involutus* subsp. *curvatoinvolutus* (Dixon) Gangulee, 1971.

Fissidens, continued.

F. cuynetii Bizot, Acta Bot. Acad. Sci. Hung. 18: 21. f. 6: 1-3. 1973.
Type: Uganda. Motozho, district d'Aknole, 1300 m, *Balazs 96*. Holotype: DI; isotype: EGR.

F. darwinianus Catcheside & Stone, J. Adelaide Bot. Gard. 11: 3. f. 1-2. 1988.
Type: Australia. Northern Territory: Darwin, Rapid Creek, *Pedersen*, 1965. Holotype: MEL. Other indicated distribution: Australia (Queensland).
Original placement: sect. *Areofissidens*.

F. decaryi Bizot, Rev. Bryol. Lichénol. 40: 131. 1974.
Replaced name: *Fissidens ferrugineus* var. *pallidus* Thériot, 1923.
Blocking name: *Fissidens pallidus* W. J. Hooker & Wilson, 1854.
Note: republished in Rev. Bryol. Lichénol 43: 852. 1976.

F. deslooveri Bizot, Rev. Bryol. Lichénol. 42: 844. 1976.
Type: Rwanda. Giseyi, poste minier de Gikungu, 2100 m, *Sloover 18639*. Holotype: herb. Bizot; isotype: herb. Sloover.

F. diaphanodontus (Potier de la Varde) Bizot in Bizot & Pócs, Acta Bot. Acad. Sci. Hung. 25: 239. 1979 [1980].
Basionym: *Moenkemeyera diaphanodonta* Potier de la Varde, 1951.

F. diaphanus Bizot, Rev. Bryol. Lichénol. 38: 594. 1971-72 [1973].
Replaced name: *Fissidens fallaciosus* Potier de la Varde ex Bizot, 1968 [1969].
Blocking name: *Fissidens fallaciosus* Thériot, 1910.

F. diplodus Mitten, 1869.

F. diplodus var. *richardsii* (R. S. Williams) Pursell, Bryologist 83: 256. 1980.
Basionym: *Moenkemeyera richardsii* R. S. Williams, 1934.

F. diversifolius Mitten, 1859.

F. diversifolius var. *rubricaulis* (Dixon) Norkett in Gangulee, Mosses E. India 2: 494. 1971.
Basionym: *Fissidens rubricaulis* Dixon, 1937.

F. dubiosus Dixon, 1922.

F. dubiosus var. *fluitans* Potier de la Varde, Rev. Bryol. Lichénol. 6: 132. 1933 [1934].
Other use: *Fissidens fluitans* (Potier de la Varde) Bruggeman-Nannenga, 1982.

F. duryae Bizot ex Pócs, Fol. Hist. Nat. Mus. Matr. 4: 29. 1976-77 [1977].
Type: Cuba. Oriente: Santiago du Cuba, *Borhidi et al. 5931 p.p.* Holotype: HAC; isotype: herb. Bizot.

F. duttonii H. A. Miller, Phytologia 34: 149. f. 1-8. 1976.
Type: Micronesia. Palou: Babelthaup, Ngatpang, 150 feet, *Miller 7975*. Holotype: MU; isotypes: BISH, G, NICH.

F. eenii Bizot, Svensk Bot. Tidskr. 62: 473. 1968.
Type: Mauritius. Entre Port-Louis et St. Pierre, 550 m, *Een*, 1962. Herbarium not specified by author.
Original placement: sect. *Crenularia*.

Fissidens, continued.

F. elmeri Brotherus, Leafl. Philipp. Bot. 2: 652. 1909.
Other use: *Fissidens crenulatus* var. *elmeri* (Brotherus) Iwatsuki & Tadashi Suzuki, 1982.

F. enervis Sim, 1926.

F. enervis subsp. *hedbergii* (Potier de la Varde) Bizot in Bizot & Pócs, Acta Bot. Acad. Sci. Hung. 25: 239. 1979 [1980].
Basionym: *Fissidens hedbergii* Potier de la Varde, 1955 [1957].

F. esquirolii Thériot, Bull. Acad. Int. Géogr. Bot. 18: 251. 1908, "*esquiroli*."
Other use: *Fissidens bryoides* var. *esquirolii* (Thériot) Iwatsuki & Tadashi Suzuki, 1982.

F. falcifolius Schwägrichen, Sp. Musc. Frond., Suppl. 1 2: 9. 1816.
Other use: *Phyllodrepanium falcifolium* (Schwägrichen) Crosby, 1970 [1971].

**F. fallaciosus* Potier de la Varde ex Bizot, Rev. Bryol. Lichénol. 36: 107. 1968 [1969].
*illegitimate, later homonym (Article 64.1).
Earlier name: *Fissidens fallaciosus* Thériot, 1910.
Correct name: *Fissidens diaphanus* Bizot, 1971-72 [1973].
Type: Central African Republic. Oubangui, Boukoko, *Tisserant s.n.* Holotype: PC.

F. fautauae H. O. Whittier & H. A. Miller, Bryologist 70: 83. f. 47-56. 1967.
Type: Tahiti. Pirae District, Fautaua Valley, 80 m, *Whittier 2326*. Holotype: NY; isotypes: BISH, G, MU.

F. ferrugineus C. Müller, 1864.

F. ferrugineus var. *pallidus* Thériot, Recueil Publ. Soc. Havraise Études Diverses 1923(2): 81. 1923.
Other use: *Fissidens decaryi* Bizot, 1974.

F. filiformis Iwatsuki, Mem. New York Bot. Gard. 45: 635. f. 1. 1987.
Type: Thailand. Phu Kradung, 1200-1300 m, *Kurokawa a.* Holotype: TNS. Paratype cited.

F. flaveolus Sehnem, Pesquisas, Bot. 29: 25. pl. 11: f. 3. 1972.
Type: Brazil. Rio Grande do Sul: Sao Luis das Missoes, 300 m, *Sehnem 6216*. Herbarium not specified by author.

F. flexinervis Mitten, J. Linn. Soc., Bot. 12: 588. 1869.
Replaced name: *Fissidens rufulus* Sullivant, 1861.
Blocking name: *Fissidens rufulus* B.S.G., 1851.
Other use: *Fissidens prionodes* fo. *flexinervis* (Mitten) Florschütz, 1964.

F. florschuetzii Pursell, Lindbergia 11: 147. f. 1-2. 1986.
Type: Colombia. Magdalena: Sierra Nevada de Santa Marta, Transecto del Rio Buritaca, 2910 m, *Reenen & Rangel 351*. Holotype: COL; isotypes: PAC, U.

**F. fluitans* (Potier de la Varde) Bruggeman-Nannenga, Proc. Kon. Ned. Akad. Wetensch., Ser. C, Biol. 85: 98. 1982.
*illegitimate, later homonym (Article 64.1).
Basionym: *Fissidens dubiosus* var. *fluitans* Potier de la Varde, 1933 [1934].
Earlier name: *Fissidens fluitans* Dixon in Christophersen, 1960.

Fissidens, continued.

F. ganguleei Norkett in Gangulee, Mosses E. India 2: 527. 1971.
Replaced name: *Fissidens lancifolius* Hampe ex Gangulee, 1957.
Blocking name: *Fissidens lancifolius* E. B. Bartram, 1939.

F. geijskesii Florschütz, Fl. Suriname 6(1): 30. f. 3. 1964.
Type: Surinam. Paloemeu River, *Geijskes s.n.* Holotype: U.

F. geminidens Bruggeman-Nannenga in Bruggeman-Nannenga & Berendsen in Bruggeman-Nannenga, Syst. Stud. Fissidens 158. 1988.
Replaced name: *Moenkemeyera obtusifolia* R. S. Williams, 1903.
Blocking name: *Fissidens obtusifolius* Wilson, 1845.

F. geminiflorus Dozy & Molkenboer, 1854.

F. geminiflorus var. *nagasakinus* (Bescherelle) Iwatsuki, J. Hattori Bot. Lab. 32: 272. 1969.
Basionym: *Fissidens nagasakinus* Bescherelle, 1898.

**F. ghanae* Bizot, Rev. Bryol. Lichénol. 40: 105. pl. 3: c. 1974.
*invalid, single element not cited as holotype (Article 37.3).
Type: Ghana. Eastern Region, Ankasa Forest Reserve, *Jones 1367*. Herbaria: "herbiers Bizot et Jones."
Original placement: sect. *Aloma*.

F. gibbonii Bizot ex Pócs, Fol. Hist. Nat. Mus. Matr. 4: 29. 1976-77 [1977].
Type: Tanzania. Morogoro District, Bondwa Peak, *Pócs & Gibbon 6052/CR*. Holotype: EGR; isotype: DSM, herb. Bizot.
Original placement: sect. *Semilimbidium*.
Note: invalid, holotype not indicated (Article 37.1), in Rev. Bryol. Lichénol 40: 131. 1974.

F. gillianus Catcheside & Stone, J. Adelaide Bot. Gard. 11: 5. f. 3-4. 1988.
Type: Australia. Northern Territory: Kings Canyon, George Gill Range, *Willis*, 1966. Holotype: MEL. Other indicated distribution: Australia (Australian Capital Territory, New South Wales, Western Australia).

F. gladiolus Mitten, Trans. Linn. Soc. London 23: 55. pl. 6: f. 16. 1860.
Other use: *Nanobryum gladiolum* (Mitten) Bizot, 1971-72 [1973].

F. gracilifolius Bruggeman-Nannenga & Nyholm in Nyholm, Ill. Fl. Nord. Mosses 1: 10. 1986.
Replaced name: *Fissidens incurvus* var. *tenuifolius* Boulay, 1884.
Blocking name: *Fissidens tenuifolius* Mitten, 1869.

F. griffithii Gangulee, Nova Hedwigia 8: 143. pl. 2. 1964.
Type: Bhutan., *Griffith 52*. Holotype: NY.

F. guangdongensis Iwatsuki & Li Zhi-hua, Acta Bot. Fenn. 129: 35. f. 15: n-x. 1985.
Type: China. Guangdong: Districtus Fengkai, 670 m, *Sun & Zhang 87*. Holotype: SYS; isotype: NICH.

F. guarani Buck, Candollea 40: 202. 1985.
Replaced name: *Conomitrium polycarpum* Bescherelle, 1891.
Blocking name: *Fissidens polycarpus* Hedwig, 1801.

Fissidens, continued.

F. guianensis Montagne, 1840.

F. guianensis var. *pacaas-novosensis* Pursell & W. D. Reese in Pursell, J. Hattori Bot. Lab. 55: 245. 1984.
Type: Brazil. Rondonia: 2-4 km above 1st rapids of R. Pacaas Novos, 400 m, *Reese 13437*. Holotype: INPA; isotypes: LAF, MICH, MO, NY, PAC.

F. gymnocarpus Stone, J. Bryol. 12: 553. f. 1-2. 1983.
Type: Australia. Queensland: Cooktown, *Stone 15808*. Holotype: MEL; isotype: BRI.

F. hebetatus Catcheside, Mosses S. Australia 77. f. 18. 1980.
Type: Australia. Northern Territory: Nourlangie Camp, Aligator River, *Lazarides & Adams 303*. Holotype: CANB. Other indicated distribution: Australia (Western Australia).
Original placement: sect. *Semilimbidium*.

F. hedbergii Potier de la Varde, Ark. Bot., ser. 2, 3(8): 129. f. 1: a-c. 1955 [1957].
Other use: *Fissidens enervis* subsp. *hedbergii* (Potier de la Varde) Bizot in Bizot & Pócs, 1979 [1980].

F. hemicraspedophyllus Cardot, Rev. Bryol. 37: 120. 1910.
Other use: *Fissidens weirii* var. *hemicraspedophyllus* (Cardot) Pursell, 1984.

F. henryae Stone, J. Bryol. 13: 159. f. 1. 1984.
Type: Australia. Queensland: near Lower Tully, on bank of Tully R., *Stone et al. 19050*. Holotype: MEL.

F. hillianus H. A. Miller & D. R. Smith, Micronesica 4: 218. f. 2. 1968 [1969].
Type: Caroline Islands. Truk: Moen, Mt. Tonaken, 370 m, *Whittier & Miller 705*. Holotype: MU; isotypes: BISH, G. Paratypes cited.

F. hirsutus Bizot ex Pócs, Fol. Hist. Nat. Mus. Matr. 4: 29. 1976-77 [1977].
Type: Tanzania. Uluguru Mts., above Morogoro, *Pócs 6004/H*. Holotype: EGR; isotypes: DSM, herb. Bizot.
Original placement: sect. *Semilimbidium*.
Note: invalid, holotype not indicated (Article 37.1), in Rev. Bryol. Lichénol 40: 132. 1974.

F. hoei Pursell, Bryologist 80: 344. 1977.
Type: U.S.A. Hawaii: Oahu, Koolau Mts., S end of Waiahole Valley Road, 800 feet, *Hoe 66*. Holotype: PAC; isotypes: BISH, herb. Hoe.

F. hookerioides Bizot & Onraedt in Bizot, Rev. Bryol. Lichénol. 42: 843. 1976.
Type: Madagascar. Antananarivo: domaine des Freres de Soavimbahoaka, 1400 m, *Onraedt 71/M/3137*. Holotype: herb. Bizot; isotype: herb. Onraedt.

F. horikawanus Shin, Sci. Rep. Kagoshima Univ. 13: 76. f. 19. 1964.
Type: Japan. Ryukyus: Okinawa, Arume, Ogimi-mura, Taminatongan, 70 m, *Shin 16733*. Holotype: KAG.
Original placement: sect. *Fissidens*.

F. hornschuchii Montagne, Ann. Sci. Nat. Bot., ser. 2, 14: 342. 1840.
Other use: *Fissidens prionodes* fo. *hornschuchii* (Montagne) Florschütz, 1964.

F. immersus Mitten, J. Linn. Soc., Bot. 12: 584. 1869.
Other use: *Fissidens stissotheca* var. *immersus* (Mitten) Pursell, Bruggeman-Nannenga & B. H. Allen, 1988.

Fissidens, continued.

F. inaequiretis Stone, J. Bryol. 15: 738. f. 2-3. 1989.
Type: Australia. New South Wales: Fernleigh, road to Pearces Creek, Richmond River, *Watts*, 1896. Holotype: NSW.

F. inclusus Bizot & Dury ex Pócs, Fol. Hist. Nat. Mus. Matr. 4: 29. 1976-77 [1977].
Type: Tanzania. Nguru Mts., *Pócs & Mabberley 6398/A*. Holotype: EGR; isotypes: DSM, herb. Bizot.
Original placement: sect. *Crenularia*.
Note: invalid, holotype not indicated (Article 37.1), in Rev. Bryol. Lichénol 40: 132. 1974.

F. incurvus Starke ex Röhling, 1813.

F. incurvus var. *tenuifolius* Boulay, Musc. France 528. 1884.
Other use: *Fissidens minutulus* subsp. *tenuifolius* (Boulay) Lambinon, 1968 [1969], *Fissidens gracilifolius* Bruggeman-Nannenga & Nyholm in Nyholm, 1986.

F. involutus Wilson ex Mitten, 1859.

F. involutus subsp. *curvatoinvolutus* (Dixon) Gangulee, Mosses E. India 2: 548. 1971.
Basionym: *Fissidens curvatoinvolutus* Dixon, 1938.

F. iriomotejimensis Shin, Sci. Rep. Kagoshima Univ. 13: 38. f. 2. 1964.
Type: Japan. Ryukyus: Iriomote, Amitori, *Shin 16322*. Holotype: KAG.

F. jaiorum H. O. Whittier & H. A. Miller, Bryologist 70: 78. f. 1-9. 1967.
Type: Tahiti. Pirae District, Mt. Aorai, valley W of Chalet Fare Ata, 1700 m, *Whittier 2936*. Holotype: NY; isotypes: BISH, G, MU.

F. jaliscensis Pursell, Cryptog. Bryol. Lichénol. 7: 37. f. 1-2. 1986.
Type: Mexico. Jalisco: W-slope near Puerto los Mazos, W of Autlan on Highway 80, 1300 m, *Sharp et al. 2720*. Holotype: TENN; isotype: PAC.

F. japonicopunctatus Shin, Sci. Rep. Kagoshima Univ. 13: 86. f. 21. 1964.
Type: Japan. Ryukyus: Yonakuni, Yonakunijima, Mt. Urabu, 80 m, *Shin 16712*. Holotype: KAG.
Original placement: sect. *Crispidium*.

**F. jeffreyi* Bizot, Rev. Bryol. Lichénol. 40: 132. 1974.
*invalid, single element not cited as holotype (Article 37.3).
Type: Seychelles. Silhouette, *Jeffrey, Mouline & Zelia s.n.* Herbaria: "herbiers Kew et Bizot."
Original placement: sect. *Crenularia*.

F. jonesii Bizot ex Pócs, Fol. Hist. Nat. Mus. Matr. 4: 29. 1976-77 [1977].
Type: Tanzania. Uluguru Mts., *Jones & Pócs 6309/N*. Holotype: EGR; isotypes: DSM, herb. Bizot.
Original placement: sect. *Crenularia*.
Note: invalid, holotype not indicated (Article 37.1), in Rev. Bryol. Lichénol 40: 133. 1974.

F. jovet-astiae Bizot, Rev. Bryol. Lichénol. 40: 133. 1974, "*jovet-astii*."
Type: Central African Republic. Botanga, *Assel 427*. Holotype: herb. Bizot.
Original placement: sect. *Semilimbidium*.

Fissidens, continued.

F. kilaueae Hoe & H. Crum, Bryologist 74: 484. f. 1-5. 1971 [1972].
Type: U.S.A. Hawaii: Hawaii, Hawaii Volcanoes National Park, 3900 feet, above Thurston Lava Tube, *Hoe 1072.0*. Holotype: MICH; isotypes: BISH, herb. Hoe.

F. kinanaluensis Iwatsuki, J. Hattori Bot. Lab. 32: 269. f. 1. 1969.
Type: Malaysia [Borneo]. Sabah: Mt. Kinabalu, Sosopodon, Kundasang, 1350 m, *Iwatsuki 160*. Holotype: NICH.
Original placement: sect. *Semilimbidium*.

F. lachmannii Bizot, Rev. Bryol. Lichénol. 40: 134. 1974.
Type: Ivory Coast. Riviere Banco, chemin des Yaux, *Assel 46*. Holotype: herb. Bizot.
Original placement: sect. *Semilimbidium*.

**F. lancifolius* Hampe ex Gangulee, Bull. Bot. Soc. Bengal 11: 75. 1957.
*illegitimate, later homonym (Article 64.1) .
Earlier name: *Fissidens lancifolius* E. B. Bartram, 1939.
Correct name: *Fissidens ganguleei* Norkett in Gangulee, 1971.
Note: not in Index Muscorum.

F. lateralis Brotherus, Hedwigia 38: 210. 1899.
Other use: *Fissidens bryoides* var. *lateralis* (Brotherus) Iwatsuki & Tadashi Suzuki, 1982.

F. laxetexturatus Bruggeman-Nannenga, Nova Hedwigia 45: 114. f. 1. 1987.
Type: Oman. Dhofar, Kortawt, *Miller 6704*. Holotype: E; isotype: BN.

F. laxitextus Brotherus ex Gangulee, Nova Hedwigia 8: 144. pl. 3. 1964.
Type: India. Darjeeling Distr., Sepoydhurra Forest in Kurseong, *Decoly & Schaul*, 1898 (Bryoth. Levier). Holotype: S.
Note: invalid, no description (Article 41.3), in Brotherus in Bruehl, Rec. Bot. Surv. India 13(1): 126. 1931.

F. laxus Sullivant & Lesquereux, Proc. Amer. Acad. Arts 4: 276. 1859.
Other use: *Fissidens crassinervis* var. *laxus* (Sullivant & Lesquereux) A. Eddy, 1988.

F. laxus var. *javensis* (Fleischer) B. C. Tan & Mohamed in Mohamed & B. C. Tan, Bryologist 91: 27. 1988.
Basionym: *Fissidens mittenii* var. *javensis* Fleischer, 1899.

F. leptophyllus Montagne, 1840.

F. leptophyllus fo. *obtusissimus* Florschütz, Fl. Suriname 6(1): 52. f. 13: h. 1964.
Type: Surinam, *Florschütz 417 p.p.* Holotype: U.
Other use: *Fissidens obtusissimus* (Florschütz) Pursell, 1989.

F. leucocaulis C. Müller ex Bizot, Rev. Bryol. Lichénol. 40: 133. 1974.
Type: Sao Tome, *Pintas s.n.* Holotype: H.
Original placement: sect. *Crenularia*.

F. limbinervis Bruggeman-Nannenga & Iwatsuki, Misc. Bryol. Lichenol. 9: 30. f. 2. 1981.
Type: Indonesia [Sulawesi]. Mt. Rantemario, 2350 m, *Eddy 4892*. Holotype: BM.

Fissidens, continued.

F. longidens Bizot, Rev. Bryol. Lichénol. 40: 134 . 1974.
Type: Tanzania. Usambara Mts., near Amani, *Pócs & Pócs 6107/C*. Holotype: EGR; isotypes: DSM, herb. Bizot.
Original placement: sect. *Moenkemeyera*.

F. loyei Bizot & Dury in Bizot, Rev. Bryol. Lichénol. 40: 133. 1974.
Type: Congo. Rive gauche de la Loye, *Assel 108*. Holotype: herb. Bizot.
Original placement: sect. *Crenularia*.

F. marginatulus Melnichuk, Ukrajins'k. Bot. Zhurn. 16(2): 83. f. 1. 1959.
Note: not in Index Muscorum.

F. megacistis Pursell, Cryptog. Bryol. Lichénol. 7: 39: f. 8-9. 1986.
Type: Mexico. Nayarit: near Jalacatin, municipio San Blas, *Norris & Taranto 14788*. Holotype: TENN; isotype: PAC.

F. microcladus Thwaites & Mitten, 1873.

F. microcladus var. *pusillissimus* (Steere) Pursell, J. Hattori Bot. Lab. 55: 243. 1984.
Basionym: *Fissidens pusillissimus* Steere, 1938.

F. micronesicus H. O. Whittier in H. A. Miller, H. O. Whittier & Bonner, Beih. Nova Hedwigia 11: 8. 1963.
Type: Caroline Islands. Pulo Anna, *Dutton 30*. Holotype: BISH.

F. minimus Schiavone, Lilloa 35(3): 51. f. 3. 1981.
Type: Argentina. Tucuman: Dep. Taft Raco, afluente de rio Tapia, 1150 m, *Schiavone 464*. Holotype: LIL.
Original placement: sect. *Pachylomidium*.

F. minutulus Sullivant, 1846.

F. minutulus var. *fallax* (Limpricht) Wijk & Margadant, Taxon 14: 197. 1965.
Basionym: *Fissidens pusillus* var. *fallax* Limpricht, 1887.

F. minutulus subsp. *tenuifolius* (Boulay) Lambinon, Lejeunia, n.s., 45: 6. 1968 [1969].
Basionym: *Fissidens incurvus* var. *tenuifolius* Boulay, 1884.

**F. minutulus* var. *tenuifolius* (Boulay) Norkett, Trans. Brit. Bryol. Soc. 4: 203. 1962 [1963].
*invalid, basionym not cited (Article 33.2).

F. minutulus var. *wilsonii* (Wheldon) Wijk & Margadant, Taxon 14: 197. 1965.
Basionym: *Fissidens pusillus* var. *wilsonii* Wheldon, 1916.

F. mittenii Paris, 1895.

F. mittenii var. *javensis* Fleischer, Hedwigia 38(Beibl.): 128. 1899.
Other use: *Fissidens laxus* var. *javensis* (Fleischer) B. C. Tan & Mohamed in Mohamed & B. C. Tan, 1988.

F. mooreae H. O. Whittier & H. A. Miller, Bryologist 70: 85. f. 64-71. 1967.
Type: Moorea. Papetoai-Paopao Bay, trail S of Mt. Rotui, 0-150 m, *Whittier 3445*. Holotype: NY; isotypes: BISH, G, MU.

F. muriculatus Spruce ex Mitten, 1869.

F. muriculatus var. *richardsii* (R. S. Williams) Florschütz, Fl. Suriname 6(1): 51. 1964.
Basionym: *Moenkemeyera richardsii* R. S. Williams, 1934.

Fissidens, continued.

F. nagasakinus Bescherelle, J. Bot. (Morot) 12: 292. 1898.
Other use: *Fissidens geminiflorus* var. *nagasakinus* (Bescherelle) Iwatsuki, 1969.

**F. nigerianus* Bizot, Rev. Bryol. Lichénol. 40: 101. pl. 1: a. 1974.
*invalid, single element not cited as holotype (Article 37.3).
Type: Nigeria. Prov. Minna, Garki Kurmi Abuja, *Jones 886*. Herbaria: "herbiers Jones et Bizot."
Original placement: sect. *Reticularia*.

F. nothotaxifolius Pursell & Hoe, Bryologist 78: 477. f. 1-11. 1975 [1976].
Type: U.S.A. Hawaii: Oahu, Honolulu Forest Reserve, Manoa Valley, 800 feet, *Hoe 2708-0*. Holotype: PAC; isotypes: BISH, herb. Hoe.

F. obscurocostatus Pursell, Bryologist 69: 495. f. 7-8. 1966 [1967].
Type: Mexico. Tamaulipas: dry wooded slope below E rim of Mesa la Chorrito, ca. 20 miles W of Hidalgo, ca. 60 miles NW of Cd. Victoria, ca. 1100 feet, *Pursell & Reese 5695*. Holotype: US.

F. obtusifolius Wilson, 1845.

F. obtusifolius var. *marginatus* Flowers, Bryologist 76: 289. 1973.
Type: U.S.A. Utah: Kane Co., Colorado River, Glen Canyon, 3200 feet, *Flowers 5671*. Holotype: UT.

F. obtusissimus (Florschütz) Pursell, Bryologist 92: 524. 1989.
Basionym: *Fissidens leptophyllus* fo. *obtusissimus* Florschütz, 1964.

F. oediloma C. Müller ex Brotherus, 1895.

F. oediloma subsp. *steyermarkii* (E. B. Bartram in Grout) Bruggeman-Nannenga, Proc. Kon. Ned. Akad. Wetensch., Ser. C, Biol. 82: 14. 1979.
Basionym: *Fissidens steyermarkii* E. B. Bartram in Grout, 1943.

**F. onraedtii* Bizot, Rev. Bryol. Lichénol. 40: 134. 1974.
*invalid, single element not cited as holotype (Article 37.3).
Type: Madagascar. Massif d'Ankaratra, *Onraedt 262*. Herbaria: "herbiers Onraedt et Bizot."
Original placement: sect. *Crenularia*.

F. orishae Gangulee, Nova Hedwigia 8: 140. pl. 1. 1964.
Type: India. Orissa: Ganjam District, *Gangulee 3727*. Holotype: Presidency College, Calcutta.

F. ornaticostatus H. Robinson, Phytologia 26: 116. f. 1-2. 1974.
Type: Chile. Juan Fernandez Islands: Mas a Tierra, *Skottsberg 26 p.p.* Holotype: S; isotype: US.

F. ovatus Bridel, 1819 [1818].

F. ovatus var. *azoricus* Potier de la Varde, Rev. Bryol. Lichénol. 15: 44. f. 21-25. 1946.
Other use: *Fissidens azoricus* (Potier de la Varde) Bizot, 1974.

F. pallidulus Hampe ex Gangulee, Bull. Bot. Soc. Bengal 11: 82. 1957.
Other use: *Fissidens taxifolius* fo. *pallidulus* (Hampe ex Gangulee) Norkett in Gangulee, 1971.

Fissidens, continued.

F. palvadeaui Bizot, Rev. Bryol. Lichénol. 40: 106. pl. 3: a. 1974.
Type: Congo. Ngamissaku, *Assel 849*. Holotype: herb. Bizot.
Original placement: sect. *Aloma*.

F. patentifolius Schiavone, Lilloa 35(3): 53. f. 5. 1981, "*patentifolia*."
Type: Argentina. Tucuman: Dep. Taft, camino de Raco a El Siambon, *Schiavone 465b*. Holotype: LIL.
Original placement: sect. *Heterocaulon*.

F. pauperculus M. A. Howe, 1894.

F. pauperculus var. *surinamensis* Florschütz, Fl. Suriname 6(1): 39. f. 7: f-g. 1964.
Type: Surinam. Peperpot, *Florschütz 1707A*. Holotype: U.

F. pepuensis Chen Pan-chieh, Sunyatsenia 6: 189. pl. 31. 1941.
Note: not in Index Muscorum.

F. pictus Bizot ex Pócs, Fol. Hist. Nat. Mus. Matr. 4: 30. 1976-77 [1977].
Type: Tanzania. Morogoro District, Msanga near Mzinga, *Pócs 6110*. Holotype: EGR; isotypes: DSM, herb. Bizot.
Original placement: sect. *Aloma*.
Note: invalid, holotype not indicated (Article 37.1), in Rev. Bryol. Lichénol 40: 106. pl. 3: C. 1974.

F. pierrotii Bizot, Rev. Bryol. Lichénol. 40: 135. 1974.
Type: Central African Republic. Lobaye, *Assel 744*. Holotype: herb. Bizot.
Original placement: sect. *Semilimbidium*.

F. pocsii Bizot & Dury ex Pócs, Fol. Hist. Nat. Mus. Matr. 4: 30. 1976-77 [1977].
Type: Tanzania. Nguru Mts., Kwamanga, *Pócs & Mabberley 6397/0*. Holotype: EGR; isotypes: DSM, herb. Bizot.
Original placement: sect. *Semilimbidium*.
Note: invalid, holotype not indicated (Article 37.1), in Rev. Bryol. Lichénol 40: 135. 1974.

F. pokhrensis Norkett ex S. S. Kumar, Misc. Bryol. Lichenol. 8: 120. f. 2. 1979.
Type: India. Himachal-Pradesh: Simla, 2300 m, *Norkett 12192(2)*. Holotype: BM.
Original placement: sect. *Semilimbidium* subsect. *Subcrenularia*.

F. polysetulus C. Müller ex Norkett & Gangulee, Mosses E. India 2: 525. f. 248. 1971.
Type: India. Darjeeling-Sikkim, *Kurz 2192*. Holotype: BM.

F. potieri Pócs, Rev. Bryol. Lichénol. 34: 805. pl. 1: a-e. 1966 [1967].
Type: Vietnam. Nghe-an, Trung-bo, prope pagum Quy-Chau, 350 m, *Pócs*, 1963. Holotype: PB.
Original placement: sect. *Semilimbidium*.

F. prionodes Montagne, 1835.

F. prionodes fo. *flexinervis* (Mitten) Florschütz, Fl. Suriname 6(1): 61. 1964.
Basionym: *Fissidens flexinervis* Mitten, 1869.

F. prionodes fo. *hornschuchii* (Montagne) Florschütz, Fl. Suriname 6(1): 62. 1964.
Basionym: *Fissidens hornschuchii* Montagne, 1840.

Fissidens, continued.

F. prionodes fo. *puiggarii* (Geheeb & Hampe) Florschütz, Fl. Suriname 6(1): 63. 1964.

Basionym: *Conomitrium puiggarii* Geheeb & Hampe, 1879.

F. pseudoeenii Bizot & Dury in Bizot ex Pócs, Fol. Hist. Nat. Mus. Matr. 4: 30. 1976-77 [1977].

Type: Tanzania. Uluguru Mts., N of Kilosa, *Pócs, Mabberly & Salche 6743/D.* Holotype: EGR; isotypes: DSM, herb. Bizot.

Original placement: sect. *Semilimbidium.*

F. pseudofirmus Iwatsuki, Mem. New York Bot. Gard. 45: 638. f. 2. 1987.

Type: India. Madhya Pradesh: Pachmarhi, Bee Falls, 3500 feet, *Daur 43.* Holotype: NICH.

F. pseudohollianus Iwatsuki & Tadashi Suzuki, J. Hattori Bot. Lab. 51: 384. pl. 21. 1982.

Type: Japan. Bonin Islands: Hahajima, Mt. Chibusa-yama, 100-200 m, *Iwatsuki 8566.* Holotype: NICH.

F. pseudomicrocladus Pursell, J. Hattori Bot. Lab. 55: 249. 1984.

Type: Mexico. Veracruz: 500 m N Biological Station, 33.5 km NE Catemaco, 500 m, *Held & Rhijn HM27.* Holotype: PAC; isotype: TENN.

F. pseudopallidus Stone, Mem. New York Bot. Gard. 45: 631. f. 39-61. 1987.

Type: Australia. Queensland: Mt. Haig, Danbulla State Forest, 1000 m, *Stone 19744.* Holotype: MEL; isotypes: BM, BRI, MELU. Paratypes cited.

**F. pseudoplumosus* Bizot & Onraedt in Bizot, Rev. Bryol. Lichénol. 40: 109. pl. 4: a. 1974.

*invalid, single element not cited as holotype (Article 37.3).

Type: Reunion. Sentier du Tremblet, *Onraedt 9378.* Herbaria: "herbiers Onraedt et Bizot."

Original placement: sect. *Amblyothallia.*

F. pursellii Lin Shan-Hsiung, Yushania 1(3): 56. f. 2. 1984.

Type: China. Taiwan: Campus of Tungha Univ., near Dept. of Biology, 200-250 m, *Lin 201072.* Holotype: TUNG.

Other use: *Fissidens crenulatus* var. *pursellii* (Lin Shan-Hsiung) Chiang Tzen-yuh & Kuo Chen-meng, 1989.

F. pusillissimus Steere, Ann. Bryol. 10: 116. 1938.

Other use: *Fissidens microcladus* var. *pusillissimus* (Steere) Pursell, 1984.

F. pusillus (Wilson) Milde, 1869.

F. pusillus var. *fallax* Limpricht, Laubm. Deutschl. 1: 438. 1887.

Other use: *Fissidens minutulus* var. *fallax* (Limpricht) Wijk & Margadant, 1965.

F. pusillus var. *wilsonii* Wheldon, J. Bot. 54: 319. 1916, "*wilsoni*."

Other use: *Fissidens minutulus* var. *wilsonii* (Wheldon) Wijk & Margadant, 1965.

F. quisqueyanus Pursell, Bryologist 88: 74. f. 1-5. 1985.

Type: Dominican Republic. La Vega: along road ca. 12 km S of Jarabacoa, between Constanza and Buena Vista, 2000-4000 feet, *Norris B1240.* Holotype: NY; isotype: PAC.

Fissidens, continued.

F. rambii Gangulee, Mosses E. India 2: 475. f. 218. 1971.
Type: India. Rambi Forest, ca. 2200 m, *Banerjee G.6191*. Holotype: "Bryotheca Ganguleei."
Original placement: subsect. *Fissidens*.

F. ranuii Gangulee, Nova Hedwigia 8: 141. pl. 2. 1964.
Type: India. Dist. Ranchi, prope cataractas Hudru, *Gangulee 5025*. Holotype: Presidency College, Calcutta.

F. rigidiusculus Brotherus in Brühl ex Gangulee, Mosses E. India 2: 484. 1971.
Type: India. Kursecong, ca. 1600 m, *Decoly & Schaul s.n.* (Bryoth. Levier 2517). Holotype: BM.

F. rigidulus J. D. Hooker & Wilson, 1854.

F. rigidulus subsp. *masatierrensis* Bruggeman-Nannenga, Proc. Kon. Ned. Akad. Wetensch., Ser. C, Biol. 82: 20. f. 4: h-j. 1979.
Type: Chile. Juan Fernandez Islands: Mas a Tierra, *Hatcher & Engel 182*. Holotype: NY; isotypes: DUKE, H, US.

F. rigidulus subsp. *novoguineensis* Bruggeman-Nannenga, Proc. Kon. Ned. Akad. Wetensch., Ser. C, Biol. 82: 21. f. 4: k-m. 1979, "*nova-guineensis*."
Type: Indonesia [New Guinea]. Irian Barat: eastern highlands, *Zanten 68-713A*. Holotype: GRO; isotype: U. Other indicated distribution: Solomon Islands (Guadalcanal).

F. robinsonii Brotherus, Philipp. J. Sci. 13: 204. 1918.
Other use: *Fissidens zippelianus* var. *robinsonii* (Brotherus) Iwatsuki & Tadashi Suzuki, 1989.

F. rubricaulis Dixon, J. Bombay Nat. Hist. Soc. 39: 772. 1937.
Other use: *Fissidens diversifolius* var. *rubricaulis* (Dixon) Norkett in Gangulee, 1971.

F. schmidii C. Müller, Bot. Zeitung (Berlin) 11: 18. 1853.
Other use: *Fissidens bryoides* subsp. *schmidii* (C. Müller) Norkett in Gangulee, 1971, *Fissidens bryoides* var. *schmidii* (C. Müller) R. S. Chopra & S. S. Kumar, 1981.

**F. schmidii* var. *bacvietensis* Tixier, Rev. Bryol. Lichénol. 34: 128. f. 1. 1966.
*invalid, single element not cited as holotype (Article 37.3).
Type: Vietnam. Chapa au dol de Lo-Qui-Ho, *Petelot 116, 57, 33 p.p.* Herbarium not indicated by author.

F. schusteri Iwatsuki & Wu Pan-cheng, Beih. Nova Hedwigia 90: 383. f. a-v. 1988.
Type: China. Sichuan: Jiang Bei Co., Boxi, *Chen 5156*. Holotype: HIRO; isotype: PE. Paratypes cited.

**F. seychellensis* Dury & Onraedt in Bizot, Rev. Bryol. Lichénol. 42: 854. 1976.
*invalid, single element not cited as holotype (Article 37.3).
Type: Seychelles. Praslin: reserve nationale de la Vallee de Mai, 150 m, collector not indicated by authors. Herbarium not specified by authors.

Fissidens, continued.

F. sharpii Pursell, Cryptog. Bryol. Lichénol. 7: 39. f. 3-7. 1986.
Type: Mexico. Jalisco: 2 miles W of Autlan, vicinity of Casa de Piedras, *Crum 1307*. Holotype: MICH; isotype: PAC. Other indicated distribution: Brazil, Curacao.

F. simii Schelpe in Magill & Schelpe, Mem. Bot. Surv. South Africa 43: 5. 1979.
Replaced name: *Fissidens aristatus* Sim, 1926.
Blocking name: *Fissidens aristatus* Brotherus, 1916.

F. spinosolimbatus Bizot & Dury ex Pócs, Fol. Hist. Nat. Mus. Matr. 4: 30. 1976-77 [1977].
Type: Tanzania. Kilimandjaro, Umbive route, *Pócs 6788/CV*. Holotype: EGR; isotypes: DSM, herb. Bizot.
Original placement: sect. *Semilimbidium*.
Note: invalid, holotype not indicated (Article 37.1), in Rev. Bryol. Lichénol 40: 135. 1974.

F. splendens Bruggeman-Nannenga, Proc. Kon. Ned. Akad. Wetensch., Ser. C, Biol. 81: 249. f. 1-7. 1978.
Type: Tanzania. Uluguru Mts., *Pócs 6289Z*. Holotype: herb. Bizot; isotype: U.

F. steyermarkii E. B. Bartram in Grout, N. Amer. Fl. 15: 177. f. 35-40. 1943.
Other use: *Fissidens oediloma* subsp. *steyermarkii* (E. B. Bartram in Grout) Bruggeman-Nannenga, 1979.

F. stissotheca (C. Müller) Mitten, 1869.

F. stissotheca var. *brevicostatus* Pursell, Bruggeman-Nannenga & B. H. Allen, Bryologist 91: 213. f. 70-71. 1988.
Type: Brazil. Rio Grande do Sul: Herval, 600 m, *Herter s.n.* Holotype: H-Brotherus.

F. stissotheca var. *immersus* (Mitten) Pursell, Bruggeman-Nannenga & B. H. Allen, Bryologist 91: 209. 1988.
Basionym: *Fissidens immersus* Mitten, 1869.

F. subambiguus Bizot & Dury in Bizot, Rev. Bryol. Lichénol. 40: 136. 1974.
Type: Tanzania. S. Uluguru Mts., below Kibungo Mission, *Pócs & Lundqvist 6475/Z*. Herbarium not specified by authors.
Original placement: sect. *Semilimbidium*.

**F. subbryoides* Gangulee, Nova Hedwigia 8: 139. pl. 1. 1964.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Fissidens subbryoides* Gangulee, 1957.
Type: India. Assam, *Assam Tea Dept. 1194*. Holotype: BM.

F. subceylonensis Dury & Onraedt in Bizot, Rev. Bryol. Lichénol. 42: 854. 1976.
Type: Seychelles. Mahe: eveche Victoria, la Rosiere, 20 m, *Onraedt 75-S-003*. Herbarium not specified by authors.

Fissidens, continued.

F. subcongolensis Bizot & Dury ex Pócs, Fol. Hist. Nat. Mus. Matr. 4: 30. 1976-77 [1977].
Type: Tanzania. Uluguru Mts., NW slope of Bondwa, *Pócs 6006/H*. Holotype: EGR; isotypes: DSM, herb. Bizot.
Original placement: sect. *Semilimbidium*.
Note: invalid, holotype not indicated (Article 37.1), in Rev. Bryol. Lichénol 40: 136. 1974.

F. subelimbatus Brotherus & Potier de la Varde in Potier de la Varde, 1925.

F. subelimbatus var. *crispus* Potier de la Varde, Rev. Bryol., n.s. 4: 60. 1931.
Other use: *Fissidens bonnotii* Bizot, 1974.

F. subexasperatus Bizot & Dury in Bizot, Rev. Bryol. Lichénol. 40: 135. 1974.
Type: Tanzania. Uluguru Mts., above Morogoro, *Pócs 6004/M*. Herbarium not specified by authors.
Original placement: sect. *Crenularia*.

F. subhumilis Catcheside, Mosses S. Australia 80. f. 19. 1980.
Type: Australia. Northern Territory: George Creek, 10 miles S of Adelaide River, *Lazarides & Adams 256*. Holotype: CANB.
Original placement: sect. *Semilimbidium*.

F. sublineaefolius (Potier de la Varde) Bruggeman-Nannenga, Proc. Kon. Ned. Akad. Wetensch., Ser. C, Biol. 85: 96. 1982.
Basionym: *Fissidens warnstorfii* var. *sublineaefolius* Potier de la Varde, 1945.

F. submadecassus Bizot, Cryptog. Bryol. Lichénol. 1: 423. pl. 1: f. l. 1980.
Type: Zaire. Shaba: Kundelungu Plateau, 1650 m, *Townsend 75/285*. Holotype: KW [sic, = K]; isotype: herb. Bizot.

F. subpictus Bizot ex Pócs, Fol. Hist. Nat. Mus. Matr. 4: 30. 1976-77 [1977].
Type: Tanzania. Above Morogoro, Mwere Valley, *Pócs, Pócs & Fuleky 6220/C*. Holotype: EGR; isotypes: DSM, herb. Bizot.
Original placement: sect. *Aloma*.
Note: invalid, holotype not indicated (Article 37.1), in Rev. Bryol. Lichénol 40: 109. pl. 3B. 1974.

**F. subplanifrons* Bizot & Onraedt in Bizot, Rev. Bryol. Lichénol. 40: 136. 1974.
*invalid, single element not cited as holotype (Article 37.3).
Type: Mauritius. Cascade de Black River, *Onraedt 248*. Herbaria: "herbiers Onraedt et Bizot."
Original placement: sect. *Crenularia*.

F. subpulchellus Norkett in Gangulee, Mosses E. India 2: 521. f. 246. 1971.
Type: India. Abor Hills, 1910 m, *Burkill 36563*. Holotype: BM.

F. subsarcophyllus Bizot & Onraedt in Bizot, Rev. Bryol. Lichénol. 42: 844. 1976.
Type: Madagascar. Antananarivo: Bongolava, 120 km de Tsiroanomandidy vers Morafenoube 1000 m, *Cremers 3451*. Holotype: herb. Bizot; isotype: herb. Onraedt.

F. subscleromitrius Bizot & Dury in Bizot, Rev. Bryol. Lichénol. 42: 845. 1976.
Type: Tanzania. 20 km S of Dar es Salaam, 2 km NE of Vikindu, 75 m, *Wingfield 2766*. Holotype: herb. Bizot; isotype: herb. Pócs.

Fissidens, continued.

F. subsphaerocarpa (Potier de la Varde) Bruggeman-Nannenga in Bruggeman-Nannenga & Berendsen in Bruggeman-Nannenga, Syst. Stud. Fissidens 158. 1988.

Basionym: *Moenkemeyera subsphaerocarpa* Potier de la Varde, 1951.

F. subundatus Dury & Bizot, Rev. Bryol. Lichénol. 42: 854. 1976.

Type: Madagascar. Antalaka, 30 m, *Onraedt*, 1971. Herbarium not specified by authors.

F. sufflatus Stone, Mem. New York Bot. Gard. 45: 627. f. 1-38. 1987.

Type: Australia. Queensland: Majuba Ck., Mt. Bartlefrere, 400 m, *Stone 18882*. Holotype: MEL; isotypes: BM, BRI, MELU. Paratypes cited.

F. sylvaticus Griffith, 1842.

F. sylvaticus var. *auriculatus* (C. Müller) Gangulee, Mosses E. India 2: 540. 1971.

Basionym: *Fissidens auriculatus* C. Müller, 1872.

F. sylvaticus var. *calcuttensis* Gangulee, Mosses E. India 2: 538. f. 255. 1971, "*calcuttense*."

Type: India. Calcutta, *Gangulee 2446*. Holotype: "Bryotheca Ganguleei."

F. sylvaticus var. *teraicola* (C. Müller) Gangulee, Mosses E. India 2: 539. 1971.

Basionym: *Fissidens teraicola* C. Müller, 1872.

F. sylvaticus var. *zippelianus* (Dozy & Molkenboer in Zollinger) Gangulee, Mosses E. India 2: 537. 1971.

Basionym: *Fissidens zippelianus* Dozy & Molkenboer in Zollinger, 1854.

F. taelingensis Gao Chien, Fl. Musc. Chin. Boreali-Orient. 378. f. 67. 1977.

Type: China. Heilongjiang: Xiao-Chingan-Ling Taeling, *Chen & Gao 387*. Holotype: IFP.

Original placement: subgen. *F.* sect. *Serridens*.

F. taiarapuensis H. O. Whittier & H. A. Miller, Bryologist 70: 85. f. 57-63. 1967.

Type: Tahiti. Taiarapu Peninsula, above Animal Research Station, 800 m, *Whittier 2179*. Holotype: NY; isotypes: BISH, G, MU.

F. tamarindifolius (Turner) Bridel, 1806.

F. tamarindifolius var. *haraldii* (Lindberg) Bizot & Pierrot in Bizot, Rev. Bryol. Lichénol. 38: 593. 1971-72 [1973].

Basionym: *Schistophyllum haraldii* Lindberg, 1887.

F. tamaulipasensis Pursell, Cryptog. Bryol. Lichénol. 7: 41. f. 10-12. 1986.

Type: Mexico. Tamaulipas: above Cd. Victoria, *Sharp 3512*. Holotype: PAC; isotype: TENN.

F. taxifolius Hedwig, 1801.

F. taxifolius fo. *pallidulus* (Hampe ex Gangulee) Norkett in Gangulee, Mosses E. India 2: 544. 1971.

Basionym: *Fissidens pallidulus* Hampe ex Gangulee, 1957.

F. teraicola C. Müller, Linnaea 37: 164. 1872.

Other use: *Fissidens sylvaticus* var. *teraicola* (C. Müller) Gangulee, 1971.

F. termitarum (Herzog) Pursell, Bryologist 82: 62. 1979.

Basionym: *Moenkemeyera termitarum* Herzog, 1910.

Fissidens, continued.

F. thorsbornei (Stone) Bruggeman-Nannenga in Bruggeman-Nannenga & Berendsen in Bruggeman-Nannenga, Syst. Stud. Fissidens 158. 1988.
Basionym: *Nanobryum thorsbornei* Stone, 1982.

F. titalyanus C. Müller, Linnaea 37: 165. 1872, "*titalyauus*."
Other use: *Fissidens crenulatus* var. *titalyanus* (C. Müller) Gangulee, 1971.

**F. townsendii* Bizot, Rev. Bryol. Lichénol. 40: 105. pl. 2: a-b. 1974.
*invalid, single element not cited as holotype (Article 37.3).
Type: Brazil. Rio Suia Missu, *Harley & Souza 11195*. Herbaria: "herbiers Kew et Bizot."

F. traversii Stone, J. Bryol. 12: 359. f. 1-2. 1983.
Type: Australia. Queensland: Five Mile Creek, ca. 18°20' S, 146°01' E, *Stone et al. 16302*. Holotype: BRI; isotypes: BM, MEL, MELU.

F. vanzantenii Bruggeman-Nannenga, Proc. Kon. Ned. Akad. Wetensch., Ser. C, Biol. 82: 25. f. 6: a-e. 1979, "*vanzanteni*."
Type: Papua New Guinea. Wau, *Zanten 68-191*. Holotype: GRO; isotype: U.
Original placement: sect. *Fissidens*.
Note: the epithet was purposefully spelled ending with "-i" by the author, contrary to Article 73.10.

F. variabilis Bruggeman-Nannenga, Proc. Kon. Ned. Akad. Wetensch., Ser. C, Biol. 71: 183. f. 6. 1973.
Type: Brazil. Minas Gerais: Caldas, *Lindberg s.n.* Holotype: H; isotypes: BM, L, NY, S-PA, U.
Original placement: sect. *Pachylomidium*.

F. variolimbatus Allison, Trans. Roy. Soc. New Zealand, Bot. 2: 138. f. 13-19. 1963.
Type: New Zealand. South Island: Twelve Mile near Barrytown, west coast, *Visch 6925*. Holotype: herb. Allison. Paratypes cited.

F. veracruzensis Pursell, Bryologist 69: 493. f. 1-6. 1966 [1967].
Type: Mexico. Veracruz: 22-24 miles WSW of Mexico 140 (Veracruz to Jalapa) along road to Huatusco, ca. 2000 feet, *Pursell & Reese 4939*. Holotype: US.

F. verruculosus Shin, Sci. Rep. Kagoshima Univ. 13: 81. f. 20. 1964.
Type: Japan [Kyushu]. Kagoshima: Isl. Toku, Hedono, Moma-Mikyo, 150 m, *Shin 13932*. Holotype: KAG.
Original placement: sect. *Pycnothallia*.

F. viridulus (Swartz) Wahlenberg, 1812.

**F. viridulus* var. *tenuifolius* (Boulay) A. J. E. Smith, J. Bryol. 7: 87. 1972.
*invalid, basionym not cited (Article 33.2).

F. warnstorfii Fleischer, Bot. Centralbl. 65: 298. 1896.
Other use: *Fissidens crassipes* subsp. *warnstorfii* (Fleischer) Bruggeman-Nannenga, 1982.

F. warnstorfii var. *sublineaefolius* Potier de la Varde, Rev. Bryol. Lichénol. 15: 41. f. 1-20. 1945.
Other use: *Fissidens sublineaefolius* (Potier de la Varde) Bruggeman-Nannenga, 1982.

Fissidens, continued.

F. weirii Mitten, 1869, "*weiri*."

F. weirii var. *hemicraspedophyllus* (Cardot) Pursell, J. Hattori Bot. Lab. 55: 237. 1984.

Basionym: *Fissidens hemicraspedophyllus* Cardot, 1910.

**F. zambiae* Bizot, Rev. Bryol. Lichénol. 40: 103. pl. 1: b. 1974.

*invalid, single element not cited as holotype (Article 37.3) and not accepted by author (see p. 138).

Type: Zambia. Victoria Falls, *Pócs & Kornas 614/C*. Herbaria: "herbiers Pócs & Bizot."

Original placement: [sect. ?] *Bryoideum*.

F. zenkeri Brotherus ex Bizot, Rev. Bryol. Lichénol. 40: 136. 1974.

Type: Cameroun. Bipinde (?), *Zenker s.n.* (Fl. Kamerun 1906). Holotype: PC.

Original placement: sect. *Semilimbidium* subsect. *Obscuri*.

F. zippelianus Dozy & Molkenboer in Zollinger, Syst. Verz. 29. 1854.

Other use: *Fissidens sylvaticus* var. *zippelianus* (Dozy & Molkenboer in Zollinger) Gangulee, 1971.

F. zippelianus var. *robinsonii* (Brotherus) Iwatsuki & Tadashi Suzuki, J. Hattori Bot. Lab. 67: 289. 1989.

Basionym: *Fissidens robinsonii* Brotherus, 1918.

Flagellomnium Lazarenko, Bot. Zhurn. (Kiev) 2(1): 62. 1941.

Original placement: Mniaceae.

Note: Not in Index Muscorum.

F. flagellare (Sullivant & Lesquereux) Lazarenko, Bot. Zhurn. (Kiev) 2(1): 62. 1941.

Basionym: *Mnium flagellare* Sullivant & Lesquereux, 1859.

Note: not in Index Muscorum.

Floribundaria Fleischer, 1905.

F. aurea (Mitten) Brotherus, 1906.

F. aurea subsp. *nipponica* (Noguchi) Noguchi, J. Hattori Bot. Lab. 41: 283. 1976.

Basionym: *Floribundaria nipponica* Noguchi, 1948.

F. golae Tosco & Piovano, Allionia 4: 134. f. 15-16. 1956.

Original placement: sect. *Eufloribundaria* [sic].

Note: not in Index Muscorum.

F. nipponica Noguchi, J. Hattori Bot. Lab. 3: 96. f. 41. 1948.

Other use: *Floribundaria aurea* subsp. *nipponica* (Noguchi) Noguchi, 1976.

F. sparsa (Mitten) Brotherus, 1906.

F. sparsa var. *pilifera* (Noguchi) Noguchi, J. Hattori Bot. Lab. 28: 151. 1965.

Basionym: *Papillaria formosana* var. *pilifera* Noguchi, 1958.

Floribundaria, continued.
F. torquata Wang Chung K'uei & Lin Shan-Hsiung, Bot. Bull. Acad. Sin. 16: 203. f. 2. 1975.
Type: China. Taiwan: Nantou, Chitou, 1200 m, *Wang & Lin*, 1973. Holotype: TUNGH.
Other use: *Papillaria torquata* (Wang Chung K'uei & Lin Shan-Hsiung) Lin Shan-Hsiung, 1988.

***Florschuetzia** Crosby, Bryologist 80: 149. 1977.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Florschuetzia* Germeraad, Hopping & J. Muller, 1968.
Correct name: *Muscoflorschuetzia* Crosby, 1978.
Type: *F. pilmaiquen* Crosby, holotype.
Original placement: Buxbaumiaceae.
F. pilmaiquen Crosby, Bryologist 80: 149. f. 1-10. 1977.
Type: Chile. Valdivia/Osorno: 2 km W of Entre Lagos, 100 m, *Crosby 12235*. Holotype: MO; isotypes: BA, FH, H, HVF, NICH, SGO, U.
Other use: *Muscoflorschuetzia pilmaiquen* (Crosby) Crosby, 1978.

Florschuetziella Vitt, Bryologist 82: 16. 1979.
Type: *F. steerei* Vitt, holotype.
Original placement: Orthotrichaceae.
F. steerei Vitt, Bryologist 82: 16. f. 40-50, 52-60, 63, 65. 1979.
Type: Mexico. Chiapas: 14 km S of San Cristobal, 2330 m, *Duell 13*. Holotype: ALTA; isotypes: DUIS, MICH, MO, NY, TENN, U.

Flowersia Griffin & Buck, Bryologist 92: 372. 1989.
Type: *Bartramia campylopus* W. P. Schimper ex C. Müller, *C. campylopus* (W. P. Schimper ex C. Müller) Griffin & Buck, holotype.
Original placement: Bartramiaceae.
F. abyssinica (C. Müller) Griffin & Buck, Bryologist 92: 372. 1989.
Basionym: *Bartramia abyssinica* C. Müller, 1849.
F. campylopus (W. P. Schimper in C. Müller) Griffin & Buck, Bryologist 92: 372. 1989.
Basionym: *Bartramia campylopus* W. P. Schimper in C. Müller, 1851.
F. setifolia (W. J. Hooker & Arnott) Griffin & Buck, Bryologist 92: 372. 1989.
Basionym: *Gymnostomum setifolium* W. J. Hooker & Arnott, 1837.
F. sinensis (Brotherus) Griffin & Buck, Bryologist 92: 372. 1989.
Basionym: *Anacolia sinensis* Brotherus, 1924.

Fontinalis Hedwig, 1801.
F. dixonii Cardot, Rev. Bryol. 23: 70. 1896, "*dixoni*."
Other use: *Fontinalis squamosa* var. *dixonii* (Cardot) A. J. E. Smith, 1976.

Fontinalis, continued.

F. hypnoides C. J. Hartman, 1843.

F. hypnoides var. *plicatus* Gao Chien, Fl. Musc. Chin. Boreali-Orient. 380. f. 151: 3, 153: 12-14. 1977.

Type: China. Heilongjiang: Xiao-chingan-ling, Yichun, *Liou*, 1952. Holotype: IFP.

F. squamosa Hedwig, 1801.

F. squamosa var. *dixonii* (Cardot) A. J. E. Smith, J. Bryol. 9: 279. 1976.

Basionym: *Fontinalis dixonii* Cardot, 1896.

F. welchiana B. H. Allen, Brittonia 40: 181. f. 1-11. 1988.

Type: U.S.A. Missouri: Reynolds Co., Johnson Shut-Ins, *Allen & Allen s.n.* (Fontinal. Exsicc. 17). Holotype: MO; isotypes: ALTA, B, BM, C, CANM, CHR, CINC, COLO, DUKE, F, FH, G, H, L, LAF, MCTC, MICH, NICH, NY, PAC, PC, PRE, S, TNS, UBC, US, Z. Other indicated distribution: U.S.A. (Arkansas, Illinois).

Forsstroemia Lindberg, 1863.

F. dixonii Tosco & Piovano, Allionia 4: 114. f. 2-3. 1956.

Note: not in Index Muscorum.

F. filiformis Zhang Man-xiang, Acta Bot. Yunnan. 2: 484. f. 8-21. 1980.

Type: China. Xizang: Long-Zi Xian, Zhun-ba, *Zang 1215*. Holotype: WUK; isotype: KUN.

Other use: *Leptopterigynandrum filiforme* (Zhang Man-xiang) Stark & Buck, 1986.

F. lasioides (C. Müller) Noguchi, Misc. Bryol. Lichenol. 5: 28. 1969.

Basionym: *Leucodon lasioides* C. Müller, 1896.

F. leptodontoidea Buck, Bryologist 83: 451. 1980 [1981].

Replaced name: *Pterigynandrum sinense* Potier de la Varde, 1938.

Blocking name: *Forsstroemia sinensis* (Bescherelle) Paris, 1896.

F. nitida Lindberg, Oefers. Förh. Finska Vetensk.-Soc. 12(2): 73. 1869.

Other use: *Neomacounia nitida* (Lindberg) Ireland, 1974.

F. noguchii Stark, Misc. Bryol. Lichenol. 9: 182. f. 1. 1983.

Type: Japan [Shikoku]. Tokushima: Mt. Tsurugi-san, ca. 1700 m, *Ando*, 1959. Holotype: HIRO.

F. rigida Dixon, Farlowia 1: 35. 1943.

Other use: *Neolindbergia plicata* Stark & Buck, 1986.

F. secunda Dixon & Badhwar, Rec. Bot. Surv. India 12: 176. 1938.

Other use: *Bryonorrisia secunda* (Dixon & Badhwar) Stark & Buck, 1986.

F. stricta Lazarenko, Bot. Zhurn. (Kiev) 2(1): 84. 1941.

Note: not in Index Muscorum.

F. thomsonii (Mitten) Buck, Bryologist 83: 457. 1980 [1981].

Basionym: *Leucodon thomsonii* Mitten, 1859.

F. trichomitria (Hedwig) Lindberg, 1863.

F. trichomitria subsp. *australis* (C. Müller) Stark, J. Hattori Bot. Lab. 63: 198. 1987.

Basionym: *Lasia australis* C. Müller, 1868.

Forsstroemia, continued.
F. trichomitria var. *floridana* (Lindberg) H. Crum, Steere & L. E. Anderson, Bryologist 67: 163. 1964.
Basionym: *Leptodon floridanus* Lindberg, 1883.
F. tripinnata (Dixon) Noguchi, J. Hattori Bot. Lab. 47: 311. 1980.
Basionym: *Porotrichum tripinnatum* Dixon, 1933.

Funaria Hedwig, 1801.
F. sect. *Plagiodus* Mitten, J. Linn. Soc., Bot. 12: 248. 1869.
Other use: *Entosthodon* subgen. *Plagiodus* (Mitten) Fife, 1985.
F. acaulis Hampe, Linnaea 30: 624. 1860.
Other use: *Entosthodon acaulis* (Hampe) Fife, 1985.
F. americana Lindberg, Öfvers. Förh. Kongl. Svenska Vetensk.-Akad. 20: 398. 1863.
Other use: *Entosthodon americanus* (Lindberg) Fife, 1985.
Note: valid by reference to previously and effectively published description (Article 32.1.c).
F. apiculatopilosa Cardot, Rev. Bryol. 40: 37. 1913.
Other use: *Entosthodon apiculatopilosus* (Cardot) Fife, 1985.
F. bartramiana Schultze-Motel, Taxon 12: 127. 1963.
Replaced name: *Entosthodon cavifolius* E. B. Bartram, 1942.
Blocking name: *Entosthodon cavifolius* Mitten in Harvey, 1859.
F. borneensis Dixon, J. Linn. Soc., Bot. 50: 92. pl. 2: f. 19. 1935.
Other use: *Entosthodon borneensis* (Dixon) Iwatsuki, 1969.
F. brassii (E. B. Bartram) Schultze-Motel, Taxon 12: 127. 1963, "*brassi*."
Basionym: *Entosthodon brassii* E. B. Bartram, 1942.
F. clavata (Mitten in Harvey) Magill, Fl. S. Africa, Bryophyta, Mosses 2: 326. 1987.
Basionym: *Entosthodon clavatus* Mitten in Harvey, 1859.
F. contorta (E. B. Bartram) Schultze-Motel, Taxon 12: 127. 1963.
Basionym: *Entosthodon contortus* E. B. Bartram, 1942.
F. fascicularis (Hedwig) Lindberg, 1864 [1865].
F. fascicularis var. *serrata* (Brébisson) Wijk & Margadant, Taxon 14: 197. 1965.
Basionym: *Gymnostomum serratum* Brébisson, 1839.
F. groutiana Fife, Bryologist 82: 207. 1979.
Replaced name: *Funaria microstoma* var. *obtusifolia* Grout, 1935.
Blocking name: *Funaria obtusifolia* Weinmann, 1845.
F. harveyana Magill in Magill & Schelpe, Mem. Bot. Surv. South Africa 43: 7. 1979.
Replaced name: *Entosthodon cavifolius* Mitten in Harvey, 1859.
Blocking name: *Funaria cavifolia* Cardot & Brotherus, 1923.
F. hungarica Boros, Magyar Bot. Lapok 23: 73. 1925.
Other use: *Steppomitra hungarica* (Boros) Vondrácek, 1965 [1966].
F. hygrometrica Hedwig, Sp. Musc. Frond. 172. 1801.
Other use: *Koehlreutera hygrometrica* (Hedwig) Grindel, 1803.

Funaria, continued.

F. hygrometrica fo. *muralis* (Hübener) Sloover, Bull. Jard. Bot. Natl. Belgique 37: 446. 1967.
Basionym: *Funaria hygrometrica* var. *muralis* Hübener, 1833.

F. hygrometrica var. *muralis* Hübener, Muscol. Germ. 497. 1833.
Other use: *Funaria hygrometrica* fo. *muralis* (Hübener) Sloover, 1967.

F. laevis Mitten, J. Linn. Soc., Bot. 12: 248. 1869.
Other use: *Entosthodon laevis* (Mitten) Fife, 1985.

F. mediterranea Lindberg, 1863.

F. mediterranea var. *alpina* Amann, Bull. Soc. Vaud. Sci. Nat. 54: 47. 1921.
Other use: *Funaria muhlenbergii* var. *alpina* (Amann) Castelli, 1966 [1967].

F. microstoma Bruch ex W. P. Schimper, 1840.

F. microstoma var. *obtusifolia* Grout, Moss Fl. N. Amer. 2: 86. 1935.
Other use: *Funaria groutiana* Fife, 1979.

**F. muehlenbergii* Turner in Schwägrichen, 1816.
*invalid, orthographic variant (Article 75.1).

F. muhlenbergii Turner, Ann. Bot. (Koenig & Sims) 2: 198. 1804 [Jun 1805].
Other use: *Entosthodon muhlenbergii* (Turner) Fife, 1985.

F. muhlenbergii var. *alpina* (Amann) Castelli, Rev. Bryol. Lichénol. 34: 718. 1966 [1967].
Basionym: *Funaria mediterranea* var. *alpina* Amann, 1921.

F. obtusata W. P. Schimper in C. Müller, Syn. Musc. Frond. 2: 540. 1851.
Other use: *Entosthodon obtusatus* (W. P. Schimper in C. Müller) Fife, 1987.

F. paraguensis Brotherus, Bih. Kongl. Svenksa Vetensk.-Akad. Handl. 26 Afd. 3(7): 24. 1900.
Other use: *Entosthodon paraguensis* (Brotherus) Buck, 1985.

**F. pilifera* Brotherus, Ann. Bryol. 1: 34. 1928.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Funaria pilifera* (Mitten) Brotherus, 1903.
Correct name: *Funaria wijkii* R. S. Chopra, 1975.

F. serrata Bridel, Muscol. Recent. Suppl. 3: 70. 1817.
Other use: *Entosthodon serratus* (Bridel) Fife, 1985.

F. subintegra Brotherus, Bernice P. Bishop Mus. Bull. 40: 13. 1927.
Other use: *Entosthodon subintegrus* (Brotherus) H. A. Miller, H. O. Whittier & B. Whittier, 1978.

F. subnuda Taylor, London J. Bot. 5: 57. 1846.
Other use: *Entosthodon subnudus* (Taylor) Fife, 1985.

F. subpallescens (Lazarenko) Smirnova, Novosti Sist. Niz. Rast. 6: 255. 1969 [1970].
Basionym: *Entosthodon subpallescens* Lazarenko, 1938.
Note: invalid, cited as synonym (Article 34.1), in Lazarenko, Zhurn. Inst. Bot. Vseukrajins'k. Akad. Nauk 26-27: 207. 1938.

F. subulata (E. B. Bartram) Schultze-Motel, Taxon 12: 127. 1963.
Basionym: *Entosthodon subulatus* E. B. Bartram, 1942.

Funaria, continued.
F. succuleata (H. A. Wager & Wright) Brotherus ex Magill, Fl. S. Africa, Bryophyta, Mosses 2: 321. 1987.
Basionym: *Physcomitrium succuleatum* H. A. Wager & Wright, 1915.
F. urceolata (Mitten in Harvey) Magill in Magill & Schelpe, Mem. Bot. Surv. South Africa 43: 7. 1979.
Basionym: *Entosthodon urceolatus* Mitten in Harvey, 1859.
F. wijkii R. S. Chopra, Taxon. Indian Mosses 185. 1975.
Replaced name: *Funaria pilifera* Brotherus, 1928.
Blocking name: *Funaria pilifera* (Mitten) Brotherus, 1903.

Funariella Sérgio, Orsis 3: 10. 1988.
Type: *Gymnostomum curvisetum* Schwägrichen, *F. curviseta* (Schwägrichen) Sérgio, holotype.
Original placement: Funariaceae.
F. curviseta (Schwägrichen) Sérgio, Orsis 3: 10. 1988.
Basionym: *Gymnostomum curvisetum* Schwägrichen, 1823.

Gammiella Brotherus in Engler & Prantl, 1908.
G. capillacea (Griffith) Tixier, Rev. Bryol. Lichénol. 43: 439. 1977.
Basionym: *Neckera capillacea* Griffith, 1843.
G. ceylonensis (Brotherus in Herzog) B. C. Tan & Buck, J. Hattori Bot. Lab. 66: 318. 1989.
Basionym: *Clastobryum ceylonense* Brotherus in Herzog, 1910.
G. merrillii (Brotherus) Tixier, Rev. Bryol. Lichénol. 43: 440. 1977.
Basionym: *Clastobryum merrillii* Brotherus, 1913.
G. rugosa Tixier, Rev. Bryol. Lichénol. 43: 443. f. 19: 1. 1977.
Type: Vietnam. Tuyen Duc, Mt. Lang Bian, 1900 m, *Tixier 211*. Holotype: herb. Tixier. Other indicated distribution: Thailand.

Ganguleea Zander, Phytologia 65: 426. 1989.
Type: *Merceyopsis angulosa* Brotherus & Dixon, *G. angulosa* (Brotherus & Dixon) Zander, holotype.
Original placement: Pottiaceae.
G. angulosa (Brotherus & Dixon) Zander, Phytologia 65: 427. 1989.
Basionym: *Merceyopsis angulosa* Brotherus & Dixon, 1910.

Garckea C. Müller, 1845.
G. flexuosa (Griffith) Margadant & Norkett, J. Bryol. 7: 440. 1973.
Basionym: *Grimmia flexuosa* Griffith, 1842.

Garovaglia Endlicher, 1836, "*Carovaglia*."
G. sect. *Angustifoliae* During, Bryoph. Biblioth. 12: 186. 1977.
Type: *G. angustifolia* Mitten, holotype.
G. sect. *Aristatae* During, Bryoph. Biblioth. 12: 136. 1977.
Type: *G. aristata* Bosch & Sande Lacoste, holotype.

Garovaglia, continued.

G. sect. *Baeuerlenia* During, Bryoph. Biblioth. 12: 81. 1977.
Type: *Endotrichum baeuerlenii* Geheeb, *G. baeuerlenii* (Geheeb) Paris, holotype.

G. sect. *Compressae* During, Bryoph. Biblioth. 12: 179. 1977.
Type: *G. compressa* Mitten, holotype.

G. angustifolia Mitten, 1868.

G. angustifolia var. *bogorensis* (Fleischer) During, Bryoph. Biblioth. 12: 206. 1977.
Basionym: *Garovaglia bogorensis* Fleischer, 1908.

G. angustifolia fo. *gyldenstolpei* (E. B. Bartram) During, Bryoph. Biblioth. 12: 208. 1977.
Basionym: *Endotrichella gyldenstolpei* E. B. Bartram, 1953.

G. angustifolia fo. *lanceolata* (Wright) During, Bryoph. Biblioth. 12: 205. 1977.
Basionym: *Endotrichum lanceolatum* Wright, 1892.

G. angustifolia fo. *pilifera* (Brotherus) During, Bryoph. Biblioth. 12: 206. 1977.
Basionym: *Endotrichella pilifera* Brotherus, 1913.

G. angustifolia fo. *recurvifolia* During, Bryoph. Biblioth. 12: 209. f. 77b, 78. 1977.
Type: Indonesia [New Guinea]. Irian Barat: Star Mts., Mt. Antares, Bivouc 39a, 1500 m, *Zanten 504*. Holotype: L; isotype: GRO.

G. arcuata Noguchi, Lindbergia 1: 174. f. 1. 1972.
Type: Thailand. Payap, Kawng San, 1550 m, *Hansen et al. 11416*. Holotype: C; isotype: herb. Noguchi.

G. austrocaledonica Bescherelle, Ann. Sci. Nat. Bot., ser. 5, 18: 226. 1873.
Other use: *Euptychium setigerum* subsp. *austrocaledonicum* (Bescherelle) During, 1977.

G. binsteadii (Brotherus) During, Bryoph. Biblioth. 12: 85. 1977.
Basionym: *Endotrichella binnsteadii* Brotherus, 1899 [1900].

G. binsteadii var. *mirabilis* (Dixon) During, Bryoph. Biblioth. 12: 86. 1977.
Basionym: *Garovaglia mirabilis* Dixon, 1942.

G. bogorensis Fleischer, Musci Buitenzorg 3: 707. 1908.
Other use: *Garovaglia angustifolia* var. *bogorensis* (Fleischer) During, 1977.

G. brachythecioides Noguchi & Iwatsuki, J. Hattori Bot. Lab. 36: 460. f. 2: a-f. 1972.
Type: Malaysia [Borneo]. Sabah: Mt. Kinabalu, near Hot Spring, Poring, 600-650 m, *Iwatsuki 3993a*. Holotype: NICH.

G. brassii (E. B. Bartram) During, Bryoph. Biblioth. 12: 190. 1977.
Basionym: *Endotrichella brassii* E. B. Bartram, 1942.

G. brevifolia E. B. Bartram, Contr. U.S. Natl. Herb. 37: 57. 1965.
Type: Papua New Guinea. Kassam, 1370 m, *Brass 32439*. Holotype: US.
Other use: *Garovaglia powellii* var. *brevifolia* (E. B. Bartram) During, 1977.

G. compressa Mitten, 1873.

G. compressa var. *lepidopiloides* (Brotherus) During, Bryoph. Biblioth. 12: 185. 1977.
Basionym: *Endotrichella lepidopiloides* Brotherus, 1900.

Garovaglia, continued.

G. crispata Tixier, Ann. Hist.-Nat. Mus. Natl. Hung. 66: 89. f. 2. 1974.
Type: Vietnam. Parc National de Cuc Phuong, *Pócs et al. 3045/i*. Holotype: PC.

G. densifolia Thwaites & Mitten in Mitten, J. Linn. Soc., Bot. 13: 312. 1873.
Other use: *Garovaglia powellii* subsp. *densifolia* (Thwaites & Mitten in Mitten) During, 1977.

G. dicranomorpha Tixier, Rev. Bryol. Lichénol. 37: 728. f. 1. 1970 [1971].
Type: Vietnam. Lam Dong, Bao Loc, 700 m, *Tixier 287*. Herbarium not specified by author.

G. dimorphophylla Tixier, Rev. Bryol. Lichénol. 37: 730. f. 2. 1970 [1971].
Type: Vietnam. Tuyen Duc, Mont Lang Bian, 1900 m, *Tixier 260*. Herbarium not specified by author.

G. eberhardtii (Brotherus & Paris in Paris) During, Bryoph. Biblioth. 12: 93. 1977.
Basionym: *Endotrichella eberhardtii* Brotherus & Paris in Paris, 1907.

G. elegans (Dozy & Molkenboer) Hampe ex Bosch & Sande Lacoste, 1863.

G. elegans fo. *apiculata* (E. B. Bartram) During, Bryoph. Biblioth. 12: 169. 1977.
Basionym: *Endotrichella apiculata* E. B. Bartram, 1965.

G. elegans subsp. *dietrichiae* (C. Müller) During, Bryoph. Biblioth. 12: 151. 1977.
Basionym: *Endotrichella dietrichiae* C. Müller, 1872.

G. elegans fo. *falcifolia* (E. B. Bartram) During, Bryoph. Biblioth. 12: 161. 1977.
Basionym: *Endotrichella falcifolia* E. B. Bartram, 1965.

G. elegans fo. *formosa* During, Bryoph. Biblioth. 12: 163. f. 59 (below). 1977.
Type: Malaysia [Malay Peninsula]. Pahang: near K. Glanggi, *Henderson 22405* (Singapore field no.) Holotype: BM; isotype: GRO.

G. elegans var. *graeffeana* (C. Müller) During, Bryoph. Biblioth. 12: 157. 1977.
Basionym: *Endotrichella graeffeana* C. Müller, 1874.

G. elegans fo. *latifolia* (E. B. Bartram) During, Bryoph. Biblioth. 12: 165. 1977.
Basionym: *Endotrichella latifolia* E. B. Bartram, 1951.

G. elegans fo. *musgraveae* (Brotherus) During, Bryoph. Biblioth. 12: 159. 1977.
Basionym: *Endotrichella musgraveae* Brotherus, 1899 [1900].

G. elegans fo. *perplicata* (Brotherus) During, Bryoph. Biblioth. 12: 167. 1977.
Basionym: *Endotrichella perplicata* Brotherus, 1913.

G. elegans var. *sinensis* Noguchi in Noguchi & Li Xing-jiang, J. Jap. Bot. 63: 147. f. 3. 1988.
Type: China. Xizang: Medog Co., Dexing, 1700 m, *Su 3413*. Holotype: NICH; isotype: HKAS.

G. haleakalae Brotherus, Bernice P. Bishop Mus. Bull. 40: 20. pl. 5: f. 18. 1927.
Other use: *Garovaglia powellii* var. *halaekalae* (Brotherus) During, 1977.

G. laevifolia Thwaites & Mitten in Mitten, J. Linn. Soc., Bot. 13: 313. 1873.
Other use: *Endotrichellopsis laevifolia* (Thwaites & Mitten in Mitten) During, 1977.

Garovaglia, continued.

G. luzonensis R. S. Williams, 1914.

G. luzonensis var. *zwickeyi* (E. B. Bartram) During, Bryoph. Biblioth. 12: 100. 1977.

Basionym: *Garovaglia zwickeyi* E. B. Bartram, 1944.

G. mirabilis Dixon, J. Bot. 80: 25. 1942.

Other use: *Garovaglia binsteadii* var. *mirabilis* (Dixon) During, 1977.

G. mujuensis Zanten, Nova Guinea, Bot. 10(16): 304. pl. 26: f. 2. 1964.

Type: Indonesia [New Guinea]. Irian Barat: Umkubun, 400 m, *Zanten 256*. Holotype: L; isotype: GRO.

G. obtusata E. B. Bartram, Occas. Pap. Bernice P. Bishop Mus. 15: 341. f. 9. 1940.

Other use: *Garovaglia powellii* subsp. *obtusata* (E. B. Bartram) During, 1977.

G. planifrons Renauld & Paris, Rev. Bryol. 29: 7. 1902.

Other use: *Calyptothecium planifrons* (Renauld & Paris) Argent, 1973 [1974].

G. plicata (Bridel) Bosch & Sande Lacoste, 1863.

G. plicata var. *brevicuspidata* (E. B. Bartram) H. A. Miller, H. O. Whittier & B. Whittier, Bryoph. Biblioth. 16: 143. 1978.

Basionym: *Garovaglia tahitensis* var. *brevicuspidata* E. B. Bartram, 1931.

G. plicata subsp. *punctidens* (R. S. Williams) During, Bryoph. Biblioth. 12: 113. 1977.

Basionym: *Garovaglia punctidens* R. S. Williams, 1914.

G. plicata var. *splendida* (Fleischer) During, Bryoph. Biblioth. 12: 107. 1977.

Basionym: *Garovaglia splendida* Fleischer, 1908.

G. plicata subsp. *undulata* (Renauld & Cardot) During, Bryoph. Biblioth. 12: 109. 1977.

Basionym: *Garovaglia undulata* Renauld & Cardot, 1896.

G. powellii Mitten, 1868.

G. powellii var. *brevicuspidata* (E. B. Bartram) During, Bryoph. Biblioth. 12: 121. 1977.

Basionym: *Garovaglia tahitensis* var. *brevicuspidata* E. B. Bartram, 1931.

G. powellii var. *brevifolia* (E. B. Bartram) During, Bryoph. Biblioth. 12: 128. 1977.

Basionym: *Garovaglia brevifolia* E. B. Bartram, 1965.

G. powellii subsp. *densifolia* (Thwaites & Mitten in Mitten) During, Bryoph. Biblioth. 12: 133. 1977.

Basionym: *Garovaglia densifolia* Thwaites & Mitten in Mitten, 1873.

G. powellii var. *halaekalae* (Brotherus) During, Bryoph. Biblioth. 12: 123. 1977.

Basionym: *Garovaglia haleakalae* Brotherus, 1927.

G. powellii subsp. *muelleri* (Hampe) During, Bryoph. Biblioth. 12: 125. 1977.

Basionym: *Endotrichum muelleri* Hampe, 1876.

G. powellii subsp. *obtusata* (E. B. Bartram) During, Bryoph. Biblioth. 12: 131. 1977.

Basionym: *Garovaglia obtusata* E. B. Bartram, 1940.

Garovaglia, continued.

G. powellii var. *planomarginata* (Dixon) During, Bryoph. Biblioth. 12: 129. 1977.
Basionym: *Endotrichella planomarginata* Dixon, 1924.

G. powellii var. *tahitensis* (Bescherelle ex W. P. Schimper) During, Bryoph. Biblioth. 12: 122. 1977, "*taitensis*."
Basionym: *Garovaglia tahitensis* Bescherelle ex W. P. Schimper, 1895.

G. punctidens R. S. Williams, Bull. New York Bot. Gard. 8: 352. 1914.
Other use: *Garovaglia plicata* subsp. *punctidens* (R. S. Williams) During, 1977.

G. rivalis Tixier, Rev. Bryol. Lichénol. 37: 730. f. 3. 1970 [1971].
Type: Vietnam. Tuyen Duc, Gougah, 1000 m, *Tixier 3894*. Herbarium not specified by author.

G. robbinsii (E. B. Bartram) During, Bryoph. Biblioth. 12: 145. 1977.
Basionym: *Endotrichella robbinsii* E. B. Bartram, 1961.

G. splendida Fleischer, Musci Buitenzorg 3: 700. f. 131. 1908.
Other use: *Garovaglia plicata* var. *splendida* (Fleischer) During, 1977.

G. subauriculata Zanten, Nova Guinea, Bot. 10(16): 305. pl. 26: f. 3; pl. 36: f. 6. 1964.
Type: Indonesia [New Guinea]. Irian Barat: Camp 36, 1200 m, *Zanten 491*. Holotype: L; isotype: GRO.

G. tahitensis Bescherelle ex W. P. Schimper, Ann. Sci. Nat. Bot., ser. 7, 20: 34. 1895.
Other use: *Garovaglia powellii* var. *tahitensis* (Bescherelle ex W. P. Schimper) During, 1977.

G. tahitensis var. *brevicuspidata* E. B. Bartram, Occas. Pap. Bernice P. Bishop Mus. 9(16): 9. f. 3. 1931.
Other use: *Garovaglia plicata* var. *brevicuspidata* (E. B. Bartram) H. A. Miller, H. O. Whittier & B. Whittier, 1978, *Garovaglia powellii* var. *brevicuspidata* (E. B. Bartram) During, 1977.

G. undulata Renauld & Cardot, Rev. Bryol. 23: 102. 1896.
Other use: *Garovaglia plicata* subsp. *undulata* (Renauld & Cardot) During, 1977.

G. zantenii During, Bryoph. Biblioth. 12: 193. f. 68c, 70. 1977.
Type: Indonesia [New Guinea]. Irian Barat: Star Mts., Mt. Antares, 2 km E of Bivouac 39a, 1400 m, *Zanten 451a*. Holotype: L; isotype: GRO.
Original placement: sect. *Angustifoliae*.

G. zwickeyi E. B. Bartram, Farlowia 1: 507. f. 18-20. 1944.
Other use: *Garovaglia luzonensis* var. *zwickeyi* (E. B. Bartram) During, 1977.

Garysmithia Steere, Phytologia 36: 165. 1977.
Type: *G. bifurcata* Steere, holotype.
Original placement: Leskeaceae.

Garysmithia, continued.
G. bifurcata Steere, Phytologia 36: 165. f. 1-23. 1977.
Type: U.S.A. Alaska: Ogotoruk Creek, Cape Thompson, Brooks Range, *Smith A304*. Holotype: NY; isotypes: ALA, ALTA, HIRO, MICH, NICH. Other indicated distribution: U.S.A. (Colorado).

***Globulina** (C. Müller) Brotherus in Engler & Prantl, 1902.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Globulina* Link, 1820.
Correct name: *Globulinella* Steere, 1946.
G. boliviana C. Müller, Nuovo Giorn. Bot. Ital., n.s., 4: 39. 1897.
Other use: *Bryoerythrophyllum bolivianum* (C. Müller) Zander, 1978 [1979].
G. peruviana R. S. Williams, Bull. Torrey Bot. Club 43: 325 pl. 17: f. 8-15. 1916.
Other use: *Saitoa peruviana* (R. S. Williams) Zander, 1989.

Globulinella Steere, 1946.
G. benoistii (Thériot) Magill, Bryologist 80: 79. 1977.
Basionym: *Gyroweisia benoistii* Thériot, 1936.

Glossadelphus Fleischer, 1923.
G. sect. *Congolenses* Tixier, Nova Hedwigia 46: 323. 1988.
Type: *G. congolensis* Brotherus & Potier de la Varde, holotype.
G. subgen. *Ogatae* Tixier, Nova Hedwigia 46: 324. 1988.
Type: *G. ogatae* Tixier, holotype.
G. sect. *Rotundatae* Tixier, Nova Hedwigia 46: 323. 1988.
Type: *Taxithelium perplanicaule* Brotherus, *G. perplanicaulis* (Brotherus) Fleischer, holotype.
G. sect. *Similantes* Tixier, Nova Hedwigia 46: 323. 1988.
Type: *Hypnum similans* Bosch & Sande Lacoste, *G. similans* (Bosch & Sande Lacoste) Fleischer, holotype.
G. abortivapicus Hoe, Bryologist 76: 310. f. 1-8. 1973.
Type: U.S.A. Hawaii: Oahu, Koolau Mts., Honolulu District and Forest Reserve, Manoa Valley, Manoa Falls Trail 73, *Hoe 2294.0*. Holotype: BISH; isotypes: B, MICH, MO, NICH, TNS, U, herb. Hoe.
G. abruptus (Mitten) H. Robinson, Bryologist 70: 42. 1967.
Basionym: *Callicostella abrupta* Mitten, 1864.
G. alaris Brotherus & A. Yasuda, Rev. Bryol. 53: 5. 1926.
Other use: *Taxiphyllum alare* (Brotherus & A. Yasuda) Lin Shan-Hsiung, 1988.
G. andersonii E. B. Bartram, Bryologist 54: 81. f. 1-6. 1951.
Other use: *Bryocrumia andersonii* (E. B. Bartram) L. E. Anderson, 1980, *Taxiphyllum andersonii* (E. B. Bartram) H. Crum, 1965.
G. guineensis (Brotherus & Paris) Crosby, B. H. Allen & Magill, Bryologist 88: 128. 1985.
Basionym: *Hypnella guineensis* Brotherus & Paris, 1908.

Glossadelphus, continued.
G. julaceus Tixier, Nova Hedwigia 46: 344. f. 16. 1988.
Type: China. Guangdong: Pin Fa, *Leveille s.n.* Holotype: PC-Thériot.
G. littoralis (Hampe) Wijk & Margadant, Taxon 14: 197. 1965.
Basionym: *Hypnum littorale* Hampe, 1872.
G. nitidus Thériot, Ann. Cryptog. Exot. 5: 183. illustration. 1932.
Other use: *Taxiphyllum nitidum* (Thériot) Buck, 1987.
G. ovatus Norris & T. Koponen, Ann. Bot. Fenn. 22: 380. f. 6. 1985.
Type: Papua New Guinea. West Sepik: Frieda River, Mt. Ekvaidedebom, 8 km W of Frieda Base Camp, 1250-1300 m, *Koponen 35578*. Holotype: H; isotypes: HSC, LE. Paratype cited.
**G. scaphophyllus* Horikawa & Ando in Kira & Umesao, Nat. Life Southe. Asia 3: 34. 1964.
*invalid, no description (Article 36.1).
G. semiscabrus (Renauld & Cardot) Crosby, B. H. Allen & Magill, Bryologist 88: 128. 1985.
Basionym: *Hypnella semiscabra* Renauld & Cardot, 1896 [1897].
G. spathulifolius (Dixon) R. S. Chopra, Taxon. Indian Mosses 521. 1975, "*spathulifolium*."
Basionym: *Taxithelium spathulifolium* Dixon, 1935.
G. viridis (Renauld & Cardot) Crosby, B. H. Allen & Magill, Bryologist 88: 128. 1985.
Basionym: *Hypnella viridis* Renauld & Cardot, 1896 [1897].
G. yakoushimae (Cardot) Noguchi, Misc. Bryol. Lichenol. 9: 159. 1983.
Basionym: *Taxithelium yakoushimae* Cardot, 1913.

Glyphocarpa R. Brown, 1819.
G. cernua Wilson, Hooker's J. Bot. Kew Gard. Misc. 3: 383. 1851.
Other use: *Philonotis cernua* (Wilson) Griffin & Buck, 1989.
G. glaziovii Hampe, Vidensk. Meddel. Dansk Naturhist. Foren. Kjøbenhavn, ser. 3, 4: 48. 1872.
Other use: *Philonotis glaziovii* (Hampe) Griffin & Buck, 1989.
G. lindigii Hampe, Linnaea 31: 522. 1862.
Other use: *Philonotis lindigii* (Hampe) Griffin & Buck, 1989.
G. pusilla J. D. Hooker & Wilson, London J. Bot. 3: 544. 1844.
Other use: *Philonotis australiensis* Griffin & Buck, 1989.

Glyphomitrium Bridel, 1818 [1819].
G. crispifolium Noguchi, J. Hattori Bot. Lab. 31: 313. f. 1: 7-15. 1968.
Type: Japan [Honshu]. Nagano: Mt. Ontake, *Manago*, 1953. Holotype: NICH.
G. formosanum Iwatsuki, J. Jap. Bot. 39: 179. f. 1: a-o. 1964.
Type: China. Taiwan: Taichung, between Mt. Ta-Hsueh and Mt. Tou-Ying, ca. 3100 m, *Wang*, 1322. Holotype: NICH.

Glyphomitrium, continued.

G. formosanum var. *serratum* Iwatsuki in Iwatsuki & A. J. Sharp, J. Hattori Bot. Lab. 33: 165. f. 1: g-p. 1970.
Type: China. Taiwan: Miaoli, Hsueh Shan Shan Mo, SW of Tahsueh-shan 2500 m, *Iwatsuki et al. 1113*. Holotype: NICH.

Glyphothecium Hampe, 1860.

G. pendulum Zanten, Nova Guinea, Bot. 10(16): 302. pl. 26: f. 1. 1964.
Type: Indonesia [New Guinea]. Irian Barat: Mt. Antares, Camp 40, 2400 m, *Zanten 627*. Holotype: L; isotype: GRO.

G. sciuroides (Hooker) Hampe, 1859.

**G. sciuroides* fo. *octangulum* (C. Müller) Hattaway, Monogr. Ptychomniaceae 216. 1984.
*invalid, not effectively published (Article 29.1).
Basionym: *Neckera octangula* C. Müller, 1851.

Gollania Brotherus in Engler & Prantl, 1908.

G. demaretii Potier de la Varde in Demaret & J. Leroy, Explor. Parc Natl. Albert, Mission Lebrun 6: 57. f. 60-64. 1944, "*demareti*."
Other use: *Chryso-hypnum demaretii* (Potier de la Varde in Demaret & J. Leroy) Higuchi, 1986.
Note: treated as invalid, no Latin description (Article 36.1), and cited from Ark. Bot. ser. 2, 3: 197. 1955 in Index Muscorum.

G. japonica (Cardot) Ando, Hikobia, Suppl., 1: 192. 1981.
Basionym: *Symphyodon japonicus* Cardot, 1912.

G. letestui Dixon & Potier de la Varde, Rev. Bryol. Lichénol. 6: 152. f. 15. 1934.
Other use: *Herzogiella letestui* (Dixon & Potier de la Varde) Ando, 1973 [1974].

G. monodii Potier de la Varde, Bull. Inst. Franç. Afrique Noire, ser. A, Sci. Nat., 4: 1207. 1959.
Other use: *Trismegistia monodii* (Potier de la Varde) Ando, 1973 [1974].

G. schensiana Higuchi, J. Hattori Bot. Lab. 59: 29. f. 16. 1985.
Type: China. Shanxi: Pauo-li, *Hugh*, 1895. Holotype: BM. Other indicated distribution: Bhutan, India, Nepal.

G. taxiphylloides Ando, Hikobia, Suppl., 1: 189. f. 1-2. 1981.
Type: Japan [Honshu]. Okayama: Rashomon, Niimi, 420 m, *Ando 31184*. Holotype: HIRO.

G. turgens (C. Müller) Ando, Bot. Mag. (Tokyo) 79: 769. 1966.
Basionym: *Cupressina turgens* C. Müller, 1898.

Goniomitrium J. D. Hooker & Wilson, 1846.

G. acuminatum W. J. Hooker & Wilson, 1846.

G. acuminatum subsp. *africanum* (C. Müller) Fife, J. Hattori Bot. Lab. 58: 192. 1985.
Basionym: *Rehmanniella africana* C. Müller, 1881.

Goniomitrium, continued.
**G. seroi* C. Casas, Acta Phytotax. Barcinon. 10: 13. f. 1. 1972.
*invalid, single element not cited as holotype (Article 37.3).
Type: Spain. Almeria: prope Cortijo de Monsul in Sierra del Cabo de Gata. The protologue mentions at least two collections, by two or three collectors, but no holotype is indicated.

Grevilleanum L. C. Beck & Emmons, Amer. J. Sci. Arts 11: 183. 1826, "*Grevillea*" on plate.
Original placement: No family indicated.
Note: Not in Index Muscorum.
G. serratum L. C. Beck & Emmons, Amer. J. Sci. Arts 11: 183. pl. 1: a-3. 1826.
Note: not in Index Muscorum.

Grimmia Hedwig, 1801.
G. alpicola Hedwig, 1801.
G. alpicola var. *dupretii* (Thériot) H. Crum, Bryologist 74: 168. 1971.
Basionym: *Grimmia dupretii* Thériot, 1907.
G. angustissima Potier de la Varde, Ark. Bot., ser. 2, 3(8): 148. f. 9. 1955 [1957].
Other use: *Schistidium angustissimum* (Potier de la Varde) Ochyra in Ochyra & Pócs, 1982.
G. antarctici Cardot, Bull. Herb. Boissier, sér. 2, 6: 15. 1906.
Other use: *Schistidium antarctici* (Cardot) Savicz-Ljubitskaya & Smirnova, 1965.
G. apocarpa Hedwig, 1801.
G. apocarpa fo. *latifolia* J. E. Zetterstedt, Revis. Grimm. Scand. 53. 1861.
Other use: *Schistidium rivulare* subsp. *latifolium* (J. E. Zetterstedt) B. Bremer, 1980, *Schistidium rivulare* var. *latifolium* (J. E. Zetterstedt) H. Crum & L. E. Anderson, 1989.
G. apocarpa var. *obscuriviridis* H. Crum, Bryologist 72: 243. 1969.
Replaced name: *Grimmia atrofusca* W. P. Schimper, 1876.
Blocking name: *Grimmia apocarpa* fo. *atrofusca* Nees & Hornschuch, 1827.
Note: valid, error of bibliographic citation of replaced name (Article 33.2), blocking name cited as subvariety.
G. apocarpa var. *obtusifolia* (Bruch & W. P. Schimper in B.S.G.) Margadant, Lindbergia 1: 128. 1972.
Basionym: *Schistidium confertum* var. *obtusifolium* Bruch & W. P. Schimper in B.S.G., 1845.
G. apocarpa subsp. *papillosa* (Culmann in Amann) Sloover, Bull. Jard. Bot. Natl. Belgique 37: 445. 1967.
Basionym: *Schistidium papillosum* Culmann in Amann, 1918.
G. apocarpa var. *serrulata* Weinmann, Bull. Soc. Imp. Naturalistes Moscou 18(1): 456. 1845.
Other use: *Schistidium apocarpum* fo. *serrulatum* (Weinmann) Savicz-Ljubitskaya & Smirnova, 1968.

Grimmia, continued.

G. apocarpa var. *taimyrensis* I. Borszczow & G. Borszczow, Reise Sibir. 1(2, 2): 136. 1856.

Other use: *Schistidium apocarpum* var. *taimyrense* (I. Borszczow & G. Borszczow) Savicz-Ljubitskaya & Smirnova, 1968.

G. apocarpa var. *urceolaris* (Schleicher ex Nees & Hornschuch) Margadant, Lindbergia 1: 128. 1972.

Basionym: *Grimmia urceolaris* Schleicher ex Nees & Hornschuch, 1827.

G. apophysata Gangulee, Nova Hedwigia 12: 428. pl. 7. 1966 [1967].

Type: India. Phalut, prope Darjeeling, 3500 m, *Kurz 2344*. Holotype: CAL.

G. arctolimnia Steere, Bryologist 77: 230. f. 1-19. 1974.

Type: Canada. Northwest Territories: Labine Point, Port Radium, *Steere 10429*. Holotype: NY; isotypes: ALA, ALTA, BM, C, CANM, COLO, DUKE, FH, H, LE, MICH, MO, NFLD, NICH, O, PC, S-PA, TENN, U, UBC, US, WTU.

Other use: *Coscinodon arctolimnius* (Steere) Steere, 1977.

Original placement: subgen. *Coscinodon*.

G. atricha C. Müller & Kindberg in Macoun, Cat. Canad. Pl., Musci 65. 1892.

Other use: *Schistidium atrichum* (C. Müller & Kindberg in Macoun) W. A. Weber, 1976.

G. atrofusca W. P. Schimper, Syn. Musc. Eur. (ed. 2) 2: 240. 1876.

Other use: *Grimmia apocarpa* var. *obscuriviridis* H. Crum, 1969.

G. boliviana (Brotherus in Herzog) F. J. Hermann, Bryologist 79: 137. 1976.

Basionym: *Coscinodon bolivianus* Brotherus in Herzog, 1916.

G. brachydictyon (Cardot) Deguchi, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 16: 173. 1978 [1979].

Basionym: *Racomitrium patens* var. *brachydictyon* Cardot, 1908.

G. campylopoda (Lazarenko) K. Saito, J. Jap. Bot. 48: 163. 1973.

Basionym: *Usmania campylopoda* Lazarenko, 1970.

G. cardotii Héribaud, 1899, "*cardoti*."

G. cardotii var. *gymnostoma* J. Fröhlich, Ann. Naturhist. Mus. Wien 67: 156. 1964.

Type: Afghanistan. Kabul: in valle Pagman prope Kabul, *Rechinger 19704*. Holotype: W.

G. celata Cardot, Bull. Herb. Boissier, sér. 2, 6: 7. 1906.

Other use: *Schistidium celatum* (Cardot) B. G. Bell, 1984.

G. chenii Lin Shan-Hsiung, Biol. Bull. Dept. Biol. Coll. Sci. Tunghai Univ. 60: 67. 1984.

Replaced name: *Grimmia himalayana* Chen Pan-chieh, 1962.

Blocking name: *Grimmia himalayana* Mitten, 1859.

G. chrysoneura C. Müller, Bot. Jahrb. Syst. 5: 80. 1883.

Other use: *Schistidium chrysoneurum* (C. Müller) Ochyra in Ochyra, Vitt & D. G. Horton, 1986.

G. churchilliana H. Crum, Bryologist 89: 24. 1986.

Replaced name: *Coscinodon arsenei* Thériot, 1928.

Blocking name: *Grimmia arsenei* Cardot, 1913.

Grimmia, continued.

G. cinclidodontea C. Müller in Röll, Bot. Centralbl. 44: 387. 1890.
Other use: *Schistidium cinclidodonteum* (C. Müller in Röll) B. Bremer, 1980.

G. crassifolia Lindberg ex Brotherus, 1892.

G. crassifolia var. *cucullata* Baumgartner, Ann. Naturhist. Mus. Wien 50: 534. 1939.
Note: not in Index Muscorum.

G. cribrodontia Herzog, Repert. Spec. Nov. Regni Veg. 41: 287. pl. 235: d-f. 1937.
Other use: *Schistidium cribrodontium* (Herzog) Ochyra in Ochyra & Pócs, 1982.

**G. cucullata* Lou Jian-shing & Wu Pan-cheng, Acta Phytotax. Sin. 18: 121. f. 2: 1-7. 1980.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Grimmia cucullata* D. M. Henderson, 1958.
Type: China. Xizang: Baingoin, 5600 m, *Lang 1317*. Holotype: PE.

G. curvata (Bridel) Sloover, Bull. Jard. Bot. Natl. Belgique 37: 445. 1967.
Basionym: *Orthotrichum curvatum* Bridel, 1827.

G. decipiens (F. Schultz) Lindberg in C. J. Hartman, 1861.

G. decipiens var. *hendersonii* (Renauld & Cardot) Sayre in H. Crum, Steere & L. E. Anderson, Bryologist 67: 163. 1964.
Basionym: *Grimmia hendersonii* Renauld & Cardot, 1892.

**G. doniana* Smith ex Spruce, 1847.
*illegitimate, type of earlier name included (Article 63.1).

G. doniana fo. *antarctica* Kuc, Rev. Bryol. Lichénol. 36: 659. f. 1-2, 4-5. 1969 [1970].
Type: Antarctica. Bunger Oasis, ad stationem nomine Dobrovalskii, *Rozycki*, 1959. Holotype: KRAM.

G. dupretii Thériot, Bryologist 10: 63. pl. 8. 1907, "*dupreti*."
Other use: *Grimmia alpicola* var. *dupretii* (Thériot) H. Crum, 1971, *Grimmia rivularis* var. *dupretii* (Thériot) H. Crum, 1983, *Schistidium dupretii* (Thériot) W. A. Weber, 1976.

G. falcata J. D. Hooker & Wilson, London J. Bot. 3: 539. 1844.
Other use: *Schistidium falcatum* (J. D. Hooker & Wilson) B. Bremer, 1980.

G. flexuosa Griffith, Calcutta J. Nat. Hist. 2: 492. 1842.
Other use: *Garckea flexuosa* (Griffith) Margadant & Norkett, 1973.

G. gibbosa Agnew, J. Bryol. 7: 339. f. 1. 1973.
Type: Iraq. Kirkuk Liwa, Tuz Khurmatli bridge over Lesser Zab River, *Polunin*, 1958. Holotype: herb. Agnew; isotypes: BM, BUH.
Original placement: subgen. *Gasterogrimmia*.

G. helvetica Schkuhr, Deutschl. Krypt. Ges. 2(2): 48. pl. 21. 1811.
Other use: *Schistidium helveticum* (Schkuhr) Deguchi, 1979.

G. hendersonii Renauld & Cardot, Rev. Bryol. 19: 86. 1892, "*hendersoni*."
Other use: *Grimmia decipiens* var. *hendersonii* (Renauld & Cardot) Sayre in H. Crum, Steere & L. E. Anderson, 1964.

Grimmia, continued.

G. hermannii H. Crum, Michigan Bot. 13: 171. f. 1-6. 1974.
Type: U.S.A. Michigan: Keeweenaw Co., Copper Harbor, *Hermann 25446*. Holotype: MICH; isotypes: CANM, DUKE, F, NY, US, WTU.

**G. himalayana* Chen Pan-chieh, Zhumulangma Feng Diqu Kexue Kaocha Baogao 227. 1962.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Grimmia himalayana* Mitten, 1859.
Correct name: *Grimmia chenii* Lin Shan-Hsiung, 1984.
Note: not in Index Muscorum.

G. hyalinocuspidata C. Müller in Neumayer, Int. Polarforsch., Deutsch. Exped. 2: 315. 1890.
Other use: *Schistidium hyalinocuspidatum* (C. Müller in Neumayer) B. G. Bell, 1984.

**G. inaequalis* Dixon & Sainsbury, Trans. & Proc. New Zealand Inst. 75: 174. 1945.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Grimmia inaequalis* Stirton, 1908.
Correct name: *Grimmia incrassicapsulis* B. G. Bell, 1984.

G. incrassicapsulis B. G. Bell, Brit. Antarct. Surv. Bull. 63: 80. 1984.
Replaced name: *Grimmia inaequalis* Dixon & Sainsbury, 1945.
Blocking name: *Grimmia inaequalis* Stirton, 1908.

G. indianensis (Sayre) H. Crum, Bryologist 68: 234. 1965.
Basionym: *Grimmia trichophylla* var. *indianensis* Sayre, 1954.

**G. julacea* R. S. Williams, Bull. New York Bot. Gard. 6(21): 260. 1910.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Grimmia julacea* (Hedwig) Weber & D. Mohr, 1803.
Correct name: *Grimmia williamsii* Deguchi, 1987.

G. kirienensis Gao Chien, Fl. Musc. Chin. Boreali-Orient. 379. f. 82. 1977.
Type: China. Jilin: Districtus Linkiang, Mt. Mao-ehr-shan, 800 m, *Gao 7714*. Holotype: IFP.
Original placement: sect. *Gasterogrimmia*.

G. lawiana J. H. Willis in Filson, Lichens Mosses Mac.Robertson Land 148. pl. 41. 1966.
Type: Antarctica. Mac.Robertson Land, Rind Rocks, *Filson 4225*. Holotype: MEL; isotypes: BM, H, K, MEL, NSW, NY, P, S, US, WELT.

G. liliputana C. Müller, Nuovo Giorn. Bot. Ital., n.s., 5: 188. 1898.
Other use: *Schistidium liliputanum* (C. Müller) Deguchi, 1978 [1979].

G. longicapusula Gao Chien & Cao Tong in Gao Chien, Zhang Man-xiang & Cao Tong, Acta Bot. Yunnan. 3: 395. f. 5: 1-8. 1981.
Type: China. Xizang: Districtus Yadong Xian, *Zang 39*. Holotype: IFP; isotype: KUN.

**G. mammillaria* Li Xing-jiang et al., Bryofl. Xizang 138. 1985.
*invalid, orthographic variant (Article 75.1).
Correct name: *Grimmia mammosa* Gao Chien & Cao Tong in Gao Chien, Zhang Man-xiang & Cao Tong, 1981.

Grimmia, continued.

G. mammosa Gao Chien & Cao Tong in Gao Chien, Zhang Man-xiang & Cao Tong, Acta Bot. Yunnan. 3: 394. f. 4: 1-9. 1981.
Type: China. Xizang: Districtus Yadong Xian, 2900 m, *Zang 71*. Holotype: IFP; isotype: KUN.

G. maritima Turner, 1804.

G. maritima var. *pilifera* I. Hagen, Kongel. Norske Vidensk. Selsk. Skr. (Trondheim) 5: 67. 1909 [1910].
Other use: *Schistidium maritimum* subsp. *piliferum* (I. Hagen) B. Bremer, 1980.

G. meteorae C. C. Townsend in K. Tan, Pl. Taxon. Phytogeogr. 48. f. 3. 1989.
Type: Greece. Thessaly: near Varlaam Monastery, the Meteora, near Kalabaka, *Townsend 87/125*. Holotype: E; isotype: herb. Townsend.

G. montana Bruch & W. P. Schimper in B.S.G., 1845.

G. montana var. *epilosa* Gravet ex Delogne, Ann. Soc. Belge Microscop. 9: 21. 1885.
Other use: *Grimmia trichophylla* var. *epilosa* (Gravet ex Delogne) Sloover, 1967.

G. obtusifolia Gao Chien & Cao Tong in Gao Chien, Zhang Man-xiang & Cao Tong, Acta Bot. Yunnan. 3: 394. f. 4: 10-16. 1981.
Type: China. Xizang: Districtus Shuanghu Xian, 4850 m, *Lang 1347*. Holotype: IFP; isotype: PE.

G. occidentalis E. Lawton, Bull. Torrey Bot. Club 94: 461. f. 1-15. 1967.
Type: U.S.A. Wyoming: Carbon Co., Medicine Bow Mountains, North French Creek, 8000 feet, *Lawton 1687*. Holotype: WTU. Other indicated distribution: U.S.A. (California, Montana, Nevada).
Other use: *Schistidium occidentale* (E. Lawton) Churchill in Funk & D. R. Brooks, 1981.
Original placement: subgen. *Schistidium*.

G. olympica Britton, Bryologist 13: 59. f. 7. 1910.
Other use: *Brachydontium olympicum* (Britton) McIntosh & Spence, 1986 [1987].

G. ovalis (Hedwig) Lindberg, 1872.

G. ovalis var. *simplex* Vondrácek, Bull. Soc. Amis Sci. Lett. Poznan, Sér. D, Sci. Biol. 6: 122. f. 7. 1965 [1966].
Type: Iraq. Naprdan, dist. Rowanduz, *Hadac*, 1961. Holotype: herb. Vondrácek; isotype: BUH.

G. ovalis var. *subturbinata* (Bridel) Savicz-Ljubitskaya & Smirnova, Novosti Sist. Niz. Rast. 1968: 288. 1968.
Basionym: *Grimmia ovata* var. *subturbinata* Bridel, 1826.

**G. ovalis* fo. *umbrosa* Vaccari ex Tosco, Webbia 28: 288. 1973.
*invalid, no Latin description (Article 36.1).

G. ovata Weber & D. Mohr, 1804.

G. ovata var. *subturbinata* Bridel, Bryol. Univ. 1: 177. 1826.
Other use: *Grimmia ovalis* var. *subturbinata* (Bridel) Savicz-Ljubitskaya & Smirnova, 1968.

Grimmia, continued.

G. pacifica E. Lawton, Bryologist 82: 277. f. 1-5. 1979.
Type: U.S.A. Oregon: Klamath Co., 8 km W of Beatty on Hwy 66, 1200 m, *Svihla 4874*. Holotype: WTU. Other indicated distribution: U.S.A. (Washington).
Original placement: subgen. *Schistidium*.

G. percarinata (Dixon & Sakurai in Sakurai) Noguchi ex Deguchi, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 16: 198. 1978 [1979].
Basionym: *Didymodon percarinatus* Dixon & Sakurai in Sakurai, 1936.

G. perichaetialis Potier de la Varde, Ark. Bot., ser. 2, 3(8): 149. f. 10. 1955 [1957].
Other use: *Schistidium perichaetiale* (Potier de la Varde) Ochyra in Ochyra & Pócs, 1982.

G. perichaetialis var. *pilifera* Demaret, Bull. Soc. Roy. Bot. Belgique 88: 92. 1956.
Other use: *Schistidium perichaetiale* var. *piliferum* (Demaret) Ochyra in Ochyra & Pócs, 1982.

G. pseudoanodon Deguchi, Stud. Cryptog. S. Peru 29. pl. 11. 1987.
Type: Peru. Puno: Chucuito, near Acora, 3900 m, *Deguchi 30009*. Holotype: TNS; isotypes: KOCH, NY. Paratypes cited.

G. ramondii (Lamarck & A. P. de Candolle) Margadant, Lindbergia 1: 128. 1972.
Basionym: *Pterigynandrum ramondii* Lamarck & A. P. de Candolle, 1805.

G. rivularis Bridel, 1801.

G. rivularis var. *dupretii* (Thériot) H. Crum, Mosses Great Lakes For. (ed. 3) 130. 1983.
Basionym: *Grimmia dupretii* Thériot, 1907.

**G. robusta* Fergusson ex Braithwaite, J. Bot. 10: 196. pl. 124: f. 3. 1872.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Grimmia robusta* Nees & Hornschuch, 1827.
Other use: *Grimmia trichophylla* var. *robusta* A. J. E. Smith, 1976.

G. scabrifolia Brotherus, Bernice P. Bishop Mus. Bull. 40: 12. pl. 4: f. 13. 1927.
Other use: *Schistidium scabrifolium* (Brotherus) H. A. Miller, H. O. Whittier & B. Whittier, 1978.

G. scabripes E. B. Bartram, Farlowia 2: 310. 1946.
Other use: *Schistidium scabripes* (E. B. Bartram) Deguchi, 1984.

G. subanodon Ochyra, Mem. New York Bot. Gard. 45: 612. 1987.
Replaced name: *Schistidium obtusifolium* Ireland & H. Crum, 1984 [1985].
Blocking name: *Grimmia obtusifolia* Gao Chien & Cao Tong in Gao Chien, Zhang Man-xiang & Cao Tong, 1981.

G. subconferta Brotherus, Symb. Sin. 4: 45. 1929.
Other use: *Schistidium subconfertum* (Brotherus) Deguchi, 1978 [1979].

G. subdoniana Noguchi, Candollea 19: 175. pl. 2: f. 1-8. 1964.
Type: Nepal. Moraine, near Lobuje, 27°51' [N], 86°49' [E], 4870 m, *Zimmermann 301*. Herbarium not specified by author.

Grimmia, continued.

G. subsquarrosa Wilson, J. Bot. 4: 231. 1866.
Other use: *Grimmia trichophylla* var. *subsquarrosa* (Wilson) A. J. E. Smith, 1976.

G. syntrichiacea C. Müller in Neumayer, Int. Polarforsch., Deutsch. Exped. 2: 315. 1890.
Other use: *Schistidium syntrichiaceum* (C. Müller in Neumayer) B. G. Bell, 1984.

G. tenera J. E. Zetterstedt, Kongl. Svenska Vetensk. Acad. Handl. 13(13): 17. 1876.
Other use: *Schistidium tenerum* (J. E. Zetterstedt) Nyholm, 1969.

G. torngakiana Brassard & Hedderson, Mem. New York Bot. Gard. 45: 216. 1987.
Type: Canada. Labrador: Nachvak Fiord, Minaret Plateau, 1700 m, *Hedderson 1892*. Holotype: NFLD.

G. trichophylla Greville, 1824.

**G. trichophylla* var. *epilosa* (Gravet ex Delogne) Sloover, Bull. Jard. Bot. Natl. Belgique 37: 445. 1967.
*illegitimate, later homonym in same species (Article 64.4).
Basionym: *Grimmia montana* var. *epilosa* Gravet ex Delogne, 1885.
Earlier name: *Grimmia trichophylla* fo. *epilosa* Warnstorf, 1897.

G. trichophylla var. *indianensis* Sayre, Bryologist 57: 21. a-f. 1954.
Other use: *Grimmia indianensis* (Sayre) H. Crum, 1965.

G. trichophylla var. *robusta* A. J. E. Smith, J. Bryol. 9: 279. 1976.
Replaced name: *Grimmia robusta* Fergusson ex Braithwaite, 1872.
Blocking name: *Grimmia robusta* Nees & Hornschuch, 1827.
Note: new name, based on adoption of earlier epithet (Article 72.Note 1).

G. trichophylla var. *subsquarrosa* (Wilson) A. J. E. Smith, J. Bryol. 9: 279. 1976.
Basionym: *Grimmia subsquarrosa* Wilson, 1866.

**G. tristicha* Herzog, Biblioth. Bot. 87: 58. f. 20. 1916.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Grimmia tristicha* (Bridel) Schwägrichen, 1811.
Correct name: *Grimmia tristichoides* Margadant, 1972.

G. tristicha var. *comosa* Herzog, Biblioth. Bot. 87: 59. 1916.
Other use: *Grimmia tristichoides* fo. *comosa* (Herzog) Margadant, 1972.

G. tristichoides Margadant, Lindbergia 1: 128. 1972.
Replaced name: *Grimmia tristicha* Herzog, 1916.
Blocking name: *Grimmia tristicha* (Bridel) Schwägrichen, 1811.

G. tristichoides fo. *comosa* (Herzog) Margadant, Lindbergia 1: 128. 1972.
Basionym: *Grimmia tristicha* var. *comosa* Herzog, 1916.

G. urceolaris Schleicher ex Nees & Hornschuch, Bryol. Germ. 2: 121. pl 19: f. 8. 1827.
Other use: *Grimmia apocarpa* var. *urceolaris* (Schleicher ex Nees & Hornschuch) Margadant, 1972.

Grimmia, continued.

G. urnulacea C. Müller in Neumayer, Int. Polarforsch., Deutsch. Exped. 2: 313. 1890.

Other use: *Schistidium urnulaceum* (C. Müller in Neumayer) B. G. Bell, 1984.

G. williamsii Deguchi, Stud. Cryptog. S. Peru 33. 1987.

Replaced name: *Grimmia julacea* R. S. Williams, 1910.

Blocking name: *Grimmia julacea* (Hedwig) Weber & D. Mohr, 1803.

Groutiella Steere in H. Crum & Steere, 1950.

G. chimborazensis (Spruce ex Mitten) Florschütz, Fl. Suriname 6(1): 215. 1964, "*chimborazense*."

Basionym: *Macromitrium chimborazense* Spruce ex Mitten, 1869.

G. chimborazensis subsp. *reesei* Vitt, Bryologist 82: 7. f. 21-22, 24-26, 29, 61. 1979.

Type: Mexico. San Luis Potosi: 30 miles W of Antiguo-Morelos, 4000 feet, *Reese 5203*. Holotype: ALTA; isotypes: LAF, TENN.

G. obtusa (Mitten) Florschütz, Fl. Suriname 6(1): 210. 1964.

Basionym: *Macromitrium obtusum* Mitten, 1869.

G. tumidula (Mitten) Vitt, Bryologist 82: 9. 1979.

Basionym: *Macromitrium tumidulum* Mitten, 1869.

Gymnostomiella Fleischer, 1904.

G. tanganyikae Sloover, Bull. Jard. Bot. Natl. Belgique 47: 176. f. 166-189. 1977.

Type: Burundi. Distr. Lacs Edouard et Kivu, route de Bujumbura a Rumonge, km 60, castel Akh-en-Aton, 800 m, *Sloover 19210*. Holotype: BR.

Gymnostomum Nees & Hornschuch in Nees, Hornschuch & Sturm, 1823, conserved name.

G. aeruginosum Smith, 1804.

G. aeruginosum var. *cochlearifolium* Karczmarz, Lindbergia 7: 127. f. 1. 1981 [1982].

Type: Nepal. Gokaina Forest, valley of the Bagmati River, *Karczmarz 32649*. Holotype: LUBL.

G. aeruginosum fo. *compactum* (Bruch & W. P. Schimper in B.S.G.) Margadant, Lindbergia 1: 128. 1972.

Basionym: *Gymnostomum rupestre* var. *compactum* Bruch & W. P. Schimper in B.S.G., 1846.

G. aeruginosum fo. *ramosissimum* (Bruch & W. P. Schimper in B.S.G.) Margadant, Lindbergia 1: 128. 1972.

Basionym: *Gymnostomum rupestre* var. *ramosissimum* Bruch & W. P. Schimper in B.S.G., 1846.

G. aeruginosum fo. *rigidum* (W. P. Schimper) Margadant, Lindbergia 1: 128. 1972.

Basionym: *Gymnostomum curvirostrum* var. *rigidum* W. P. Schimper, 1860.

Gymnostomum, continued.

**G. angustifolium* K. Saito, J. Hattori Bot. Lab. 36: 163. f. 1-3: 1. 1972.
*invalid, single element not cited as holotype (Article 37.3).
Type: Japan [Honshu]. Saitama: Chichibu, Mt. Buko, Urayama, *Nagano 3142*. Herbaria: "duplicate in NICH, NY, TENN, TNS, herb. Saito." Other indicated distribution: China (Taiwan), Korea, U.S.A. (Florida, Tennessee).

G. boreale Nyholm & Hedenäs, Lindbergia 12: 41. f. 1. 1986.
Type: "No locality given." Holotype: S. Other indicated distribution: Finland. Paratypes cited.
Note: lack of information on the type specimen prevented the authors' citing a locality and collector, and this name should be treated as valid and an exception to Article 37.3.

G. brachystegium Bescherelle, J. Bot. (Morot) 12: 281. 1898.
Other use: *Bryoerythrophyllum brachystegium* (Bescherelle) K. Saito, 1972.

G. calcareum Nees & Hornschuch, 1823.

G. calcareum fo. *cavernarum* Grom, Acta Bot. Croat. 26-27: 249. f. 19. 1967-68 [1968].
Type: Yugoslavia. In caverna prope Skocjan, *Wraber 683*. Holotype: herb. Grom.

G. chenii K. Saito, J. Jap. Bot. 48: 164. f. 2. 1973.
Type: India. NW Himalaya, *Royle s.n.* Holotype: NY.

G. conicum Schleicher ex Schwägrichen, Sp. Musc. Frond., Suppl. 1 1: 26. pl. 9. 1811.
Other use: *Pottia conica* (Schleicher ex Schwägrichen) Nyholm, 1989, *Pottia starckeana* subsp. *conica* (Schleicher ex Schwägrichen) D. F. Chamberlain, 1969.

**G. curvirostrum* Hedwig ex Bridel, 1801, "*curuirostrum*."
*illegitimate, type of earlier name included (Article 63.1).

G. curvirostrum var. *rigidum* W. P. Schimper, Syn. Musc. Eur. 44. 1860.
Other use: *Gymnostomum aeruginosum* fo. *rigidum* (W. P. Schimper) Margadant, 1972.

G. curvisetum Schwägrichen, Sp. Musc. Frond., Suppl. 2 1 1: 17. pl. 105. 1823.
Other use: *Funariella curviseta* (Schwägrichen) Sérgio, 1988.

G. eurystomum (Sendtner) Lindberg & H. Arnell, 1890.

G. eurystomum var. *subpatulum* Lindberg & H. Arnell, Kongl. Svenska Vetensk. Acad. Handl. 23(10): 58. 1890.
Other use: *Physcomitrium eurystomum* fo. *subpatulum* (Lindberg & H. Arnell) Smirnova, 1969 [1970].

**G. gracile* Dixon, Trans. Roy. Soc. South Africa 8: 191. 1920.
*illegitimate, later homonym (Article 64.1).
Replaced name: *Weissia gracilis* H. A. Wager & Dixon, 1914.
Blocking name: *Gymnostomum gracile* (R. Brown) W. J. Hooker, 1818.
Correct name: *Gymnostomum wageri* Schelpe in Magill & Schelpe, 1979.

G. insigne (Dixon) A. J. E. Smith, J. Bryol. 9: 279. 1976.
Basionym: *Weissia recurvirostris* var. *insignis* Dixon, 1902.

Gymnostomum, continued.

G. lingulatum Rehmann ex Sim, Trans. Roy. Soc. South Africa 15: 260. 1926.
Other use: *Didymodon lingulatus* (Rehmann ex Sim) Magill in Magill & Schelpe, 1979.

G. luisieri (Sérgio) Sérgio ex Crundwell, J. Bryol. 11: 603. 1981 [1982].
Basionym: *Gyroweisia luisieri* Sérgio, 1972.

G. minutulum Schwägrichen, Sp. Musc. Frond., Suppl. 1 1: 25. pl. 9. 1811.
Other use: *Pottia starckeana* subsp. *minutula* (Schwägrichen) D. F. Chamberlain, 1969.

G. pachyloma Montagne, Ann. Sci. Nat. Bot., ser. 2, 9: 51. 1838.
Other use: *Vittia pachyloma* (Montagne) Ochyra, 1987.

G. phascoides W. J. Hooker in Drummond, Musci Amer., S. States 12. 1828.
Other use: *Weissia phascopsis* Zander, 1985, *Weissia rostellata* var. *phascoides* (W. J. Hooker in Drummond) W. D. Reese & B. A. E. Lemmon, 1965.

G. recurvirostrum Hedwig, 1801.

G. recurvirostrum var. *latifolium* (J. E. Zetterstedt) Flowers ex H. Crum, Bryologist 72: 243. 1969.
Basionym: *Gymnostomum rupestre* var. *latifolium* J. E. Zetterstedt, 1876.

G. recurvum Griffith, Calcutta J. Nat. Hist. 2: 482. 1842.
Other use: *Barbula recurva* (Griffith) R. S. Chopra, 1977, *Bryoerythrophyllum recurvum* (Griffith) K. Saito in Noguchi & Iwatsuki, 1975.

G. rupestre Schleicher ex Schwägrichen, 1811.

G. rupestre var. *compactum* Bruch & W. P. Schimper in B.S.G., Bryol. Eur. 1: 79. pl. 34: δ (fasc. 33-36. Monogr. 7. pl. 6: δ). 1846.
Other use: *Gymnostomum aeruginosum* fo. *compactum* (Bruch & W. P. Schimper in B.S.G.) Margadant, 1972.

G. rupestre var. *latifolium* J. E. Zetterstedt, Kongl. Svenska Vetensk. Acad. Handl. 13(13): 11. 1876.
Other use: *Gymnostomum recurvirostrum* var. *latifolium* (J. E. Zetterstedt) Flowers ex H. Crum, 1969.

G. rupestre var. *ramosissimum* Bruch & W. P. Schimper in B.S.G., Bryol. Eur. 1: 79. pl. 34: β (fasc. 33-36. Monogr. 7. pl. 6: β). 1846.
Other use: *Gymnostomum aeruginosum* fo. *ramosissimum* (Bruch & W. P. Schimper in B.S.G.) Margadant, 1972.

G. serratum Brébisson, Mous. Normandie 8: 196. 1839.
Other use: *Funaria fascicularis* var. *serrata* (Brébisson) Wijk & Margadant, 1965.

G. setifolium W. J. Hooker & Arnott, Icon. Pl. Rar. 2: pl. 135. 1837.
Other use: *Bartramidula setifolia* (W. J. Hooker & Arnott) Fransen, 1988, *Flowersia setifolia* (W. J. Hooker & Arnott) Griffin & Buck, 1989.

G. splachnobryoides Bizot, Cryptog. Bryol. Lichénol. 1: 425. pl. 2: f. 4. 1980.
Type: Zaire. Shaba: Lubumbash, district, 11 km from Lubumbashi near Lukumi, 1250 m, *Townsend 75/225*. Holotype: KW (sic, = K); isotype: herb. Bizot.

Gymnostomum, continued.
G. tenerrimum (C. Müller) Wijk & Margadant, Taxon 17: 467. 1968.
Basionym: *Anoectangium tenerrimum* C. Müller, 1847.
G. tortile Schwägrichen in Schkuhr, Deutschl. Krypt. Ges. 2(1): 29. pl. 11: c. 1810 [May].
Other use: *Weissia euteiches* Zander, 1985.
G. valerianum (E. B. Bartram) Zander, Bryologist 75: 277. 1972.
Basionym: *Leptodontium valerianum* E. B. Bartram, 1929.
G. wageri Schelpe in Magill & Schelpe, Mem. Bot. Surv. South Africa 43: 5. 1979.
Replaced name: *Gymnostomum gracile* Dixon, 1920.
Blocking name: *Gymnostomum gracile* (R. Brown) W. J. Hooker, 1818.

Gyroweisia W. P. Schimper, 1876, conserved name.
G. benoistii Thériot, Rev. Bryol. Lichénol. 9: 17. f. 9. 1936, "*benoisti*."
Other use: *Globulinella benoistii* (Thériot) Magill, 1977.
G. latifolia Dixon, S. African J. Sci. 18: 309. 1922.
Other use: *Husnotiella latifolia* (Dixon) Zander & Magill in Magill & Schelpe, 1979.
G. latifolia var. *tanneri* Bizot, Rev. Bryol. Lichénol. 40: 120. 1974.
Type: Tanzania. Kitonga Gorge, near Kokoto, *Jones & Pócs 6316/0*. Herbarium not specified by author.
G. luisieri Sérgio, Bol. Soc. Portug. Ci. Nat., ser. 2, 14: 82. f. 1-11. 1972.
Type: Portugal. Ophir pr. pagum vulgo dictum Esposendo, *Sergio 1319*. Holotype: COI; isotypes PC, PO.
Other use: *Gymnostomum luisieri* (Sérgio) Sérgio ex Crundwell, 1981 [1982].
G. monterreia Zander & F. J. Hermann, Bryologist 89: 227. f. 1-6. 1986 [1987].
Type: Mexico. Nuevo Leon: Sierra Madre Oriental, 14.5 km NW of Monterrey, 1100 m, *Hermann 26059*. Holotype: BUF; isotypes: CANM, DUKE, GL, MEXU, MICH, NICH, NY, TENN, US, UBC, WTU, herb. Hermann.
G. nigeriana Egunyomi & Olarinmoye, Bryologist 81: 443. f. 1-9. 1978.
Type: Nigeria. Cross River: Obudu cattle ranch, *Egunyomi 379*. Holotype: UIH; isotype: herb. Bizot.
G. obtusifolia Brotherus, Nat. Pflanzenfam. 1(3): 389. 1902.
Replaced name: *Trichostomum obtusifolium* Hampe, 1870.
Blocking name: *Trichostomum obtusifolium* Palisot de Beauvois, 1805.
Other use: *Husnotiella obtusifolia* (Brotherus) Zander, 1977.
Note: new name, based on adoption of earlier epithet (Article 72.Note 1).
G. pocsii Bizot, Cryptog. Bryol. Lichénol. 1: 424. pl. 2: f. 3. 1980.
Type: Tanzania. Uluguru Mts. in Morogoro Region, E slope of Mt. Mindu above Kasanga, 600 m, *Pócs 6595/E*. Holotype: EGR; isotype: herb. Bizot.

Habrodon W. P. Schimper, 1860.
H. kashmiriensis Vohra, Bull. Bot. Surv. India 11: 70. f. 1-10. 1969 [1971].
Type: India. Tangmarg, in Cashemira, in montibus Himalaicis occidentaibus, 2000 m, *Vohra & Wadhwa 567*. Holotype: CAL.

Habrodon, continued.
H. noguchii Sakurai, Bot. Mag. (Tokyo) 46: 498. 1932, "*Haplodon*."
Other use: *Iwatsukiella noguchii* (Sakurai) Buck & H. Crum, 1978.

Hageniella Brotherus, 1910.
H. nematosa (Brotherus & Paris) Tixier, Rev. Bryol. Lichénol. 43: 408. 1977.
Basionym: *Trichosteleum nematosum* Brotherus & Paris, 1911.

Hamatocaulis Hedenäs, Lindbergia 15: 8. 1989.
Type: *Stereodon vernicosus* Mitten, *H. vernicosus* (Mitten) Hedenäs, holotype.
Original placement: Amblystegiaceae?
H. lapponicus (Norrlin) Hedenäs, Lindbergia 15: 30. 1989.
Basionym: *Hypnum lycopodioides* var. *lapponicum* Norrlin, 1873.
H. vernicosus (Mitten) Hedenäs, Lindbergia 15: 27. 1989.
Basionym: *Stereodon vernicosus* Mitten, 1864.

Hampeella C. Müller, 1881.
**H. concavifolia* Hattaway, Monogr. Ptychomniaceae 247. 1984.
*invalid, not effectively published (Article 29.1).

Hampeohypnum Buck, Mem. New York Bot. Gard. 45: 522. 1987.
Type: *Hypnum littorale* Hampe, *H. littorale* (Hampe) Buck, holotype.
Original placement: Hypnaceae.
H. littorale (Hampe) Buck, Mem. New York Bot. Gard. 45: 522. 1987.
Basionym: *Hypnum littorale* Hampe, 1872.

Handeliobryum Brotherus, Akad. Wiss. Wien Sitzungsber. Math.-Naturwiss. Kl., Abt. 1 133: 575. 1924?
H. sikkimense (Paris) Ochyra, J. Hattori Bot. Lab. 61: 71. 1986.
Basionym: *Sciaromium sikkimense* Paris, 1900.

***Haplocladium** (C. Müller) C. Müller, Nuovo Giorn. Bot. Ital., n.s., 3: 116. 1896.
*illegitimate, later homonym (Article 64.1).
Basionym: *Hypnum* subsect. *Haplocladium* C. Müller, 1879.
Earlier name: *Haplocladium* Naegeli, 1862.
Correct name: *Bryohaplocladium* R. Watanabe & Iwatsuki, 1981.
H. fauriei R. Watanabe, J. Jap. Bot. 38: 31. 1963.
Replaced name: *Thuidium fauriei* Brotherus & Paris, 1902.
Note: new name, based on adoption of earlier epithet (Article 72.Note 1).
H. mexicanum Cardot, Rev. Bryol. 36: 110. 1909.
Other use: *Bryohaplocladium mexicanum* (Cardot) R. Watanabe & Iwatsuki, 1981.

Haplocladium, continued.
H. microphyllum (Hedwig) Brotherus, 1907.
H. microphyllum var. *bhutanicum* Vohra, Bull. Bot. Surv. India 20: 152. pl. 2. 1978 [1979].
Type: Bhutan. Dochula, 3050 m, *Vohra 2003*. Holotype: CAL. Other indicated distribution: China (Xizang).
Original placement: *H. m.* subsp. *capillatum*.
H. microphyllum var. *obtusum* (Grout) H. Crum, Steere & L. E. Anderson, Bryologist 67: 163. 1964.
Basionym: *Thuidium microphyllum* var. *obtusum* Grout, 1932.
H. parvulum R. Watanabe in Iwatsuki, J. Hattori Bot. Lab. 46: 301. f. 2. 1979.
Type: Nepal. Pazon, Topke, 3380 m, *Takiguchi 208c*. Holotype: NICH; isotype: herb. Watanabe.
Other use: *Bryohaplocladium parvulum* (R. Watanabe in Iwatsuki) R. Watanabe & Iwatsuki, 1981.
H. perparaphyllum R. Watanabe, J. Hattori Bot. Lab. 36: 201. pl. 22. 1972.
Type: Japan [Fukushima]. Mt. Handa, *Watanabe 391*. Holotype: NICH; isotypes: HIRO, MAK, TNS, herb. Noguchi, herb. Watanabe. Other indicated distribution: Korea.
Other use: *Bryohaplocladium perparaphyllum* (R. Watanabe) R. Watanabe & Iwatsuki, 1981.
H. porphyropelma C. Müller, Hedwigia 40: 83. 1901.
Other use: *Bryohaplocladium porphyropelma* (C. Müller) R. Watanabe & Iwatsuki, 1981.
H. praelongum (W. P. Schimper ex Bescherelle) H. Crum, Bryologist 72: 243. 1969.
Basionym: *Pseudoleskea praelonga* W. P. Schimper ex Bescherelle, 1872.
H. schimperi Thériot, Ann. Cryptog. Exot. 3: 75. f. 6. 1930.
Other use: *Bryohaplocladium schimperi* (Thériot) R. Watanabe & Iwatsuki, 1981.

Haplodontium Hampe, 1865.
H. brachycladum Brotherus in Felippone, Contr. Fl. Bryol. Uruguay 1: [53]. 1909.
Other use: *Mielichhoferia brachyclada* (Brotherus in Felippone) A. J. Shaw & H. Crum, 1984.
H. crassinervum Herzog, Biblioth. Bot. 87: 78. f. 10. 1916.
Other use: *Bryum crassinervum* (Herzog) A. J. Shaw, 1987.
H. cuspidatum Herzog, Biblioth. Bot. 87: 78. pl. 6: f. 1. 1916.
Other use: *Mielichhoferia cuspidata* (Herzog) A. J. Shaw & H. Crum, 1984.
H. fabronioides Cardot in Grandidier, Hist. Phys. Madagascar, Mousses 39: 274. 1915.
Other use: *Mielichhoferia fabronioides* (Cardot in Grandidier) A. J. Shaw & H. Crum, 1984.

Haplodontium, continued.
H. herzogii Brotherus in Herzog, Biblioth. Bot. 87: 78. 1916.
Other use: *Mielichhoferia julacea* A. J. Shaw & H. Crum, 1984.
H. nitidum Potier de la Varde, Rev. Bryol. Lichénol. 8: 57. f. 4. 1935.
Other use: *Mielichhoferia vardei* A. J. Shaw & H. Crum, 1984.
H. pusillum Cardot in Grandidier, Hist. Phys. Madagascar, Mousses 39: 273. 1915.
Other use: *Mielichhoferia cardotii* A. J. Shaw & H. Crum, 1984.

Haplohymenium Dozy & Molkenboer, 1846, conserved name.
H. pseudotriste (C. Müller) Brotherus, 1907.
H. pseudotriste var. *robustum* Bizot, Svensk Bot. Tidskr. 62: 477. 1968.
Type: Mauritius. Foret a mi-hauteur de la montague du Pouce, *Een*, 1962. Herbarium not specified by author.

***Harpidium** (Sullivant in A. Gray) Spruce, 1867.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Harpidium* Korber, 1855.
Correct name: *Drepanocladus* (C. Müller) G. Roth, 1899.
H. exannulatum (W. P. Schimper in B.S.G.) C. E. O. Jensen, 1887.
H. exannulatum var. *falcatum* Sanio ex C. E. O. Jensen, Meddel. Grønland 3: 324. 1887.
Other use: *Warnstorfia fluitans* var. *falcata* (Sanio ex C. E. O. Jensen) H. Crum & L. E. Anderson, 1989.

***Harveya** H. Crum, Bryologist 88: 24. 1985.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Harveya* W. J. Hooker, 1837.
Correct name: *Elharveya* H. Crum, 1986.
Type: *H. vesicularioides* Crum, holotype.
Original placement: Hookeriaceae.
H. vesicularioides H. Crum, Bryologist 88: 24. f. 1-6. 1985.
Type: Mexico. Nuevo Leon: Hacienda Vista Hermosa, 35 miles S of Monterrey, *Harvey 1081*. Holotype: MICH.
Other use: *Elharveya visicularioides* (H. Crum) H. Crum, 1986.

Helicoblepharum (Spruce ex Mitten) Brotherus in Engler & Prantl, 1907.
H. meridense (C. Müller) Crosby, J. Hattori Bot. Lab. 38: 140. 1974.
Basionym: *Hookeria meridensis* C. Müller, 1897.

Helicodontium (Mitten) Jaeger, 1878.
H. compactum Thériot, Rev. Bryol. Lichénol. 5: 106. f. 7. 1932.
Other use: *Anacamptodon compactus* (Thériot) Buck, 1980.
H. doii (Sakurai) Taoda, Hikobia 8: 48. 1977.
Basionym: *Schwetschkea doii* Sakurai, 1932.

Helicodontium, continued.
H. formosicum (Cardot) Buck, J. Hattori Bot. Lab. 47: 52. 1980, "*Holicodontium*."
Basionym: *Schwetschkea formosica* Cardot, 1905 [1906].
H. kiusianum (Sakurai) Taoda, Hikobia 8: 51. 1977.
Basionym: *Schwetschkea kiusiana* Sakurai, 1932.
H. rotundifolium H. Arnell, Ark. Bot. 13(2): 79. pl. 3: f. 55-68. 1913.
Other use: *Myuroclada rotundifolia* (H. Arnell) A. L. Abramova & I. I. Abramov, 1969.

***Heliconema** (Mitten) L. Ellis & A. Eddy, J. Bryol. 15: 728. 1989.
*illegitimate, later homonym (Article 64.1).
Basionym: *Syrrhopodon* sect. *Heliconema* Mitten, 1869.
Earlier name: *Heliconema* Schopf, 1968.
H. cryptocarpus (Dozy & Molkenboer) L. Ellis & A. Eddy, J. Bryol. 15: 728. 1989.
Basionym: *Syrrhopodon cryptocarpus* Dozy & Molkenboer, 1854.
H. peguense (Bescherelle) L. Ellis & A. Eddy, J. Bryol. 15: 730. 1989.
Basionym: *Calymperes peguense* Bescherelle, 1896.
H. xanthophyllum (Mitten) L. Ellis & A. Eddy, J. Bryol. 15: 728. 1989, "*xanthophyllus*."
Basionym: *Syrrhopodon xanthophyllus* Mitten, 1869.

Helodium Warnstorf, 1905, conserved name.
H. blandowii (Weber & D. Mohr) Warnstorf, 1905.
H. blandowii var. *elodioides* (Renauld & Cardot in Röll) H. Crum, Steere & L. E. Anderson, Bryologist 68: 432. 1965 [1966], "*helodioides*."
Basionym: *Thuidium elodioides* Renauld & Cardot in Röll, 1893.

Henicodium (C. Müller) Kindberg, 1888.
H. geniculatum (Mitten) Buck, Bryologist 92: 534. 1989.
Basionym: *Leucodon geniculatus* Mitten, 1869.

Herpetineuron (C. Müller) Cardot, 1905.
H. acutifolium (Mitten) Granzow-de la Cerda, Bryologist 92: 385. 1989.
Basionym: *Anomodon acutifolius* Mitten, 1859.

Herzogiella Brotherus, 1925.
H. adscendens (Lindberg) Iwatsuki & Schofield, J. Hattori Bot. Lab. 37: 609. 1973.
Basionym: *Stereodon adscendens* Lindberg, 1872.
H. cylindricarpa (Cardot) Iwatsuki, J. Hattori Bot. Lab. 33: 374. 1970.
Basionym: *Isopterygium cylindricarpum* Cardot, 1910.
H. letestui (Dixon & Potier de la Varde) Ando, Rev. Bryol. Lichénol. 39: 535. 1973 [1974].
Basionym: *Gollania letestui* Dixon & Potier de la Varde, 1934.

Herzogiella, continued.
H. perrobusta (Brotherus in Cardot) Iwatsuki, J. Hattori Bot. Lab. 33: 377. 1970.
Basionym: *Isopterygium perrobustum* Brotherus in Cardot, 1912.
H. renitens (Mitten) Iwatsuki, J. Hattori Bot. Lab. 33: 374. 1970.
Basionym: *Stereodon renitens* Mitten, 1859.
H. seligeri (Bridel) Iwatsuki, J. Hattori Bot. Lab. 33: 374. 1970.
Basionym: *Leskea seligeri* Bridel, 1801.
H. striatella (Bridel) Iwatsuki, J. Hattori Bot. Lab. 33: 374. 1970.
Basionym: *Leskea striatella* Bridel, 1827.
H. turfacea (Lindberg) Iwatsuki, J. Hattori Bot. Lab. 33: 375. 1970.
Basionym: *Hypnum turfaceum* Lindberg, 1857.

Heterocladium Bruch & W. P. Schimper in B.S.G., 1852.
H. leucotrichum Mitten, Trans. Linn. Soc. London, Bot., ser. 2, 3: 176. 1891.
Other use: *Iwatsukiella leucotricha* (Mitten) Buck & H. Crum, 1978.
H. tenellum Deguchi & H. Suzuki, Hikobia 7: 28. f. 3-4. 1974.
Type: Japan [Honshu]. Mie: Oodaigaharazan, *Deguchi 7731*. Holotype: HIRO.

Heterophyllium (W. P. Schimper) Kindberg, 1894, "*Heterophyllum*."
H. albescens Potier de la Varde, Rev. Bryol. Lichénol. 6: 148. 12. 1934.
Other use: *Acanthocladiella albescens* (Potier de la Varde) H. Robinson & C. F. Reed, 1966.
H. henryi Tixier, Rev. Bryol. Lichénol. 34: 162. f. 21: 1-5. 1966.
Type: Vietnam. Chemin de Chapa a la cote, 2000 m, *Petelot*, 1928. Herbarium not specified by author.
H. piligerum (Brotherus & Paris) Brotherus, 1925.
**H. piligerum* var. *laxiretis* Tixier, Rev. Bryol. Lichénol. 34: 162. f. 21: 7-13. 1966, "*piliferum*."
*invalid, single element not cited as holotype (Article 37.3).
Type: Vietnam. Chapa, 1500 m, *Petelot s.n.*; Chapa, 1600 m, *Demange*, 1925; Tam-Dao, *Demange*, 1925.

Hildebrandtiella C. Müller, 1876.
H. thomeana Brotherus, Bol. Soc. Brot. 8: 180. 1890.
Other use: *Orthostichidium involutifolium* subsp. *thomeanum* (Brotherus) Argent, 1973 [1974].

Hilpertia Zander, Phytologia 65: 427. 1989.
Type: *Tortula scotteri* Zander & Steere, *H. scotteri* (Zander & Steere) Zander, holotype.
Original placement: Pottiaceae.
H. scotteri (Zander & Steere) Zander, Phytologia 65: 428. 1989.
Basionym: *Tortula scotteri* Zander & Steere, 1978.
H. velenovskyi (Schiffner) Zander, Phytologia 65: 429. 1989.
Basionym: *Tortula velenovskyi* Schiffner, 1893.

Himantocladium (Mitten) Fleischer, 1908.
H. submontanum Enroth, Acta Bot. Fenn. 137: 55. f. 6: a-h, 10. 1989.
Type: Papua New Guinea. Monrobe: N slopes of Sarawaket Range, trail from Kabwum to Wasu, ca. 1.5 km N of Kabwum, 1600-1800 m, *Norris 65467*. Holotype: H; isotype: LAE. Paratypes cited.

Holmgrenia Lindberg, 1863.
H. diminutiva Grout, Moss Fl. N. Amer. 3: 172. 1932.
Other use: *Orthothecium diminutivum* (Grout) H. Crum, Steere & L. E. Anderson, 1964.

Holomitriopsis H. Robinson, Acta Bot. Venez. 1: 75. 1965.
Type: *Leucobryum laevifolium* Brotherus, *H. laevifolia* (Brotherus) H. Robinson, holotype.
Original placement: Dicranaceae?
H. laevifolia (Brotherus) H. Robinson, Acta Bot. Venez. 1: 76. 1965.
Basionym: *Leucobryum laevifolium* Brotherus, 1901.

Holomitrium Bridel, 1826, conserved name, "*Olomitrium*."
H. sect. *Macrodictyum* Brotherus, Nat. Pflanzenfam. (ed. 2) 10: 202. 1924.
Other use: *Macrodictyum* (Brotherus) E. Hegewald, 1978 [1979].
H. austroalpinum E. B. Bartram, Lloydia 5: 250. f. 4. 1942.
Other use: *Holomitrium obliquum* var. *austroalpinum* (E. B. Bartram) A. Eddy, 1988.
H. densifolium (Wilson) Wijk & Margadant, 1962.
H. densifolium var. *pseudautoicum* (Cardot) Lin Shan-Hsiung, Yushania 5: 28. 1988.
Basionym: *Holomitrium griffithianum* var. *pseudautoicum* Cardot, 1905.
**H. dicranoides* Noguchi, J. Hattori Bot. Lab. 10: 1. pl. 1: f. 7-14. 1953.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Holomitrium dicranoides* Dozy & Molkenboer, 1844.
Correct name: *Holomitrium papuanum* Schultze-Motel, 1963.
H. griffithianum Mitten, 1859.
H. griffithianum var. *pseudautoicum* Cardot, Beih. Bot. Centralbl. 19(2): 93. 1905.
Other use: *Holomitrium densifolium* var. *pseudautoicum* (Cardot) Lin Shan-Hsiung, 1988.
H. intermedium Dixon, Ann. Bryol. 12: 49. 1939.
Other use: *Holomitrium obliquum* var. *intermedium* (Dixon) A. Eddy, 1988.
H. obliquum E. S. Salmon, 1898.
H. obliquum var. *austroalpinum* (E. B. Bartram) A. Eddy, Handb. Malesian Mosses 1: 187. 1988.
Basionym: *Holomitrium austroalpinum* E. B. Bartram, 1942.
H. obliquum var. *intermedium* (Dixon) A. Eddy, Handb. Malesian Mosses 1: 187. 1988.
Basionym: *Holomitrium intermedium* Dixon, 1939.

Holomitrium, continued.
H. papuanum Schultze-Motel, Taxon 12: 127. 1963.
Replaced name: *Holomitrium dicranoides* Noguchi, 1953.
Blocking name: *Holomitrium dicranoides* Dozy & Molkenboer, 1844.
H. proliferum Mitten, J. Linn. Soc., Bot. 12: 61. 1869.
Other use: *Macrodictyum proliferum* (Mitten) E. Hegewald, 1978 [1979].
H. urvilleanum (C. Müller) W. D. Reese, Bryologist 81: 223. 1978.
Basionym: *Syrrhopodon urvilleanus* C. Müller, 1849.
H. weisioides Dixon ex A. Eddy, Handb. Malesian Mosses 1: 190. 1988.
Replaced name: *Dicranoweisia papuana* Dixon, 1943.
Blocking name: *Holomitrium papuanum* Schultze-Motel, 1963.
H. wrightii Sullivant, Proc. Amer. Acad. Arts 5: 279. 1861.
Other use: *Macrodictyum wrightii* (Sullivant) E. Hegewald, 1978 [1979].
H. wrightii var. *latifolium* E. B. Bartram in J. Jiménez, Publ. Univ. Santo Domingo, ser. 11, 92: 6. 1954.
Note: not in Index Muscorum.

Homalia W. P. Schimper, 1860, "*Omalia*."
H. exigua Bosch & Sande Lacoste, 1862.
H. exigua var. *semimarginata* Thériot, Rev. Bryol., n.s. 3: 47. 1930.
Other use: *Homaliodendron exiguum* var. *semimarginatum* (Thériot) Schultze-Motel, 1975.
H. gracilis T. P. James in Peck, Annual Rep. State Bot. 22: 57. 1869.
Other use: *Homalia trichomanoides* fo. *gracilis* (T. P. James in Peck) H. Crum, 1969.
H. lusitanica W. P. Schimper, 1856, "*Omalia*."
H. lusitanica var. *subrecta* (Mitten) Düll-Hermanns, Bryol. Beitr. 6: 69. 1986.
Basionym: *Neckera subrecta* Mitten, 1864.
H. obtusata Mitten, J. Proc. Linn. Soc., Bot. 8: 38. 1864.
Replaced name: *Neckera obtusata* Mitten, 1859.
Blocking name: *Neckera obtusata* Montagne, 1843.
Other use: *Homaliodendron obtusatum* (Mitten) Gangulee, 1976.
H. subarcuata Brotherus, Hedwigia 38: 229. 1899.
Other use: *Taxiphyllum subarcuatum* (Brotherus) Iwatsuki, 1963.
H. trichomanoides (Hedwig) W. P. Schimper in B.S.G., 1850, "*Omalia*."
H. trichomanoides fo. *gracilis* (T. P. James in Peck) H. Crum, Bryologist 72: 243. 1969.
Basionym: *Homalia gracilis* T. P. James in Peck, 1869.
H. truncata Welwitsch & Duby, Mém. Soc. Phys. Genève 21: 430. pl. 3: 5. 1871.
Other use: *Phyllodon truncatus* (Welwitsch & Duby) Buck, 1987.

Homaliodendron Fleischer, 1906.
H. crassinervium Thériot, 1919.
H. crassinervium var. *bacvietensis* Tixier, Rev. Bryol. Lichénol. 34: 146. f. 11. 1966.
Type: Vietnam. Chapa, 1600 m, *Demange*, 1925. Herbarium not specified by author.
H. exiguum (Bosch & Sande Lacoste) Fleischer, 1908.
H. exiguum var. *semimarginatum* (Thériot) Schultze-Motel, Willdenowia 7: 505. 1975.
Basionym: *Homalia exigua* var. *semimarginata* Thériot, 1930.
H. homoideum Horikawa & Ando in Kira & Umesao, Nat. & Life Southe. Asia 3: 19. f. 3. 1964.
Type: Thailand. Doi Inthanon, *Yoda 67687*. Holotype: HIRO.
H. microphyllum Gao Chien in Gao Chien & Chang Kung-chu, Acta Phytotax. Sin. 17: 117. f. 2: 34-41. 1979.
Type: China. Xizang: Medog Xian, 900 m, *Ecol. Off. Tibet Sect. M.7443*. Holotype: IFP.
H. obtusatum (Mitten) Gangulee, Mosses E. India 5: 1416. 1976.
Basionym: *Homalia obtusata* Mitten, 1864.
H. sphaerocarpum Noguchi in H. Hara, Fl. E. Himalaya 1: 576. f. 39. 1966.
Type: India. Darjeeling, Batasi, 2150 m, *Hara et al. 200582*. Holotype: NICH; isotype: TI.
Other use: *Noguchiodendron sphaerocarpum* (Noguchi in H. Hara) Ninh & Pócs, 1981.
H. spinosum Pócs, Rev. Bryol. Lichénol. 34: 805. pl. 2. 1966 [1967].
Type: Vietnam. Bac-bo, in montibus Hoang-Lien-son, 1730 m, *Pócs*, 1963. Holotype: BP.
Original placement: sect. *Incisifolia*.

Homalothecium W. P. Schimper in B.S.G., 1851.
H. subgen. *Palamocladium* (C. Müller) H. Robinson, Bryologist 65: 99. 1962 [1963].
Basionym: *Palamocladium* C. Müller, 1896.
H. subgen. *Tomentypnum* (Loeske) H. Robinson, Bryologist 65: 98. 1962 [1963], "*Tomenthypnum*."
Basionym: *Tomentypnum* Loeske, 1911.
H. subgen. *Trachybryum* (Brotherus) H. Robinson, Bryologist 65: 100. 1962 [1963].
Basionym: *Camptothecium* sect. *Trachybryum* Brotherus, 1908.
H. aeneum (Mitten) E. Lawton, Bull. Torrey Bot. Club 92: 351. 1965.
Basionym: *Hypnum aeneum* Mitten, 1864.
H. afrostriatum (C. Müller) Ochyra in Ochyra & Pócs, Acta Bot. Acad. Sci. Hung. 28: 384. 1982.
Basionym: *Palamocladium sericeum* var. *afrostriatum* C. Müller, 1899.
H. arenarium (Lesquereux) E. Lawton, Bull. Torrey Bot. Club 92: 346. 1965.
Basionym: *Hypnum arenarium* Lesquereux, 1865.

Homalothecium, continued.

H. aureum (Spruce) H. Robinson, Bryologist 65: 96. 1962 [1963].
Basionym: *Isothecium aureum* Spruce, 1847.
Note: valid, error of bibliographic citation of basionym (Article 33.2), "*Hypnum aureum* Lag., . . . 1802."

H. euchloron (Bruch ex C. Müller) R. S. Chopra, Bryologist 80: 544. 1977.
Basionym: *Hypnum euchloron* Bruch ex C. Müller, 1851.
Note: invalid, basionym not cited (Article 33.2), in Taxon. Indian Mosses 460. 1975.

H. excavatum Dixon & Sakurai in Sakurai, Bot. Mag. (Tokyo) 50: 621. 1936.
Other use: *Palamocladium macrostegium* var. *excavatum* (Dixon & Sakurai in Sakurai) Takaki & Iwatsuki in Iwatsuki, 1966.

H. fulgescens (Mitten ex C. Müller) Jaeger, Ber. Thätigk. St. Gallischen Naturwiss. Ges. 1876-1877: 309 (Gen. Sp. Musc. 2: 1127). 1878.
Note: redundant combination in Lawton, Bull. Torrey Bot. Club 92: 348. 1965.

H. geheebii (Milde) Wigh, Bot. Not. 126: 323. 1973.
Basionym: *Brachythecium geheebii* Milde, 1869.

H. leskeoides (W. J. Hooker) H. Robinson, Bryologist 65: 99. 1962 [1963].
Basionym: *Hookeria leskeoides* W. J. Hooker, 1818.

H. lutescens (Hedwig) H. Robinson, Bryologist 65: 98. 1962 [1963].
Basionym: *Hypnum lutescens* Hedwig, 1801.
Note: redundant combination in Nyholm, Ill. Moss Fl. Fennoscandia II. Musci 561. 1969.

H. megaptilum (Sullivant) H. Robinson, Bryologist 65: 100. 1962 [1963].
Basionym: *Camptothecium megaptilum* Sullivant, 1874.

H. nilgheriense (Montagne) H. Robinson, Bryologist 65: 99. 1962 [1963].
Basionym: *Isothecium nilgheriense* Montagne, 1842.

H. nitens (Hedwig) H. Robinson, Bryologist 65: 99. 1962 [1963].
Basionym: *Hypnum nitens* Hedwig, 1801.

H. nitens var. *falcifolium* (Renauld ex Nichols) Wijk & Margadant, Taxon 14: 197. 1965.
Basionym: *Camptothecium nitens* var. *falcifolium* Renauld ex Nichols, 1913.

H. nitens var. *involutum* (Limpricht) Wijk & Margadant, Taxon 14: 197. 1965.
Basionym: *Camptothecium nitens* var. *involutum* Limpricht, 1895.

H. pinnatifidum (Sullivant) E. Lawton, Bull. Torrey Bot. Club 92: 343. 1965.
Basionym: *Hypnum pinnatifidum* Sullivant, 1865.

Homomallium (W. P. Schimper) Loeske, 1907.

H. doii Sakurai, Bot. Mag. (Tokyo) 46: 383. 1932.
Other use: *Myurium doii* (Sakurai) Iwatsuki in Inoue, Himeno & Iwatsuki, 1978, *Oedicladium doii* (Sakurai) Iwatsuki, 1979.

H. gollanii Brotherus ex Ando, Hikobia 6: 213. f. 4: h-o. 1973.
Type: India. NW Himalaya, Mussoorie, in latere septentr. montis Nag Tiba, 9000-10,000 feet, *Rhada Sal*, 1901 (Bryoth. Levier 4226). Holotype: H-Brotherus; isotype: PC.

Homomallium, continued.
H. hwangshanense Chen Pan-chieh & Wu Pan-cheng, Obs. Fl. Hwangshan. 30. f. 4. 1965.
Type: China. Hwangshan, near Tin Tao Ting, ca. 700 m, *Chen et al. 6620*. Holotype: PE.
H. sharpii Ando & Higuchi, Bryologist 86: 374. f. 1-22. 1983.
Type: Mexico. Tamaulipas: La Perra (El Provenir), Rancho del Cielo above Gomez Farias, 1900 m, *Sharp 5641a*. Holotype: TENN; isotypes: HIRO, MICH.

Hondaella Dixon & Sakurai, 1938.
H. brachytheciella (Brotherus & Paris) Ando, 1960.
**H. brachytheciella* var. *caperata* (Mitten) U. Mizushima & Ando in Ando, Hikobia 5: 181. 1969.
*illegitimate, type of earlier name included (Article 63.1).
Basionym: *Stereodon caperatus* Mitten, 1859.
Note: the basionym of *H. brachytheciella* var. *caperata* is older than that of *H. brachytheciella*, *Stereodon brachytheciella* Brotherus & Paris (1902).
H. entodontea (C. Müller) Buck, Brittonia 36: 87. 1984.
Basionym: *Pylaisaea entodontea* C. Müller, 1896.

Hookeria Smith, 1808, conserved name.
H. acuminata Mitten, J. Linn. Soc., Bot. 12: 357. 1869.
Other use: *Brymela acuminata* (Mitten) Buck, 1987.
H. adunca Mitten, J. Linn. Soc., Bot. 12: 362. 1869.
Other use: *Trachyxiphium aduncum* (Mitten) Buck, 1987.
H. apiculata J. D. Hooker & Wilson, London J. Bot. 3: 549. 1844.
Other use: *Calyptrochaeta apiculata* (J. D. Hooker & Wilson) Vitt, 1979.
H. ascensionis C. Müller, Bot. Jahrb. Syst. 5: 84. 1883.
Other use: *Schizomitrium ascensionis* (C. Müller) Ochyra in Ochyra & Pócs, 1982.
H. attenuata C. Müller, Bot. Jahrb. Syst. 5: 88. 1883.
Other use: *Schizomitrium attenuatum* (C. Müller) Ochyra in Ochyra & Pócs, 1982.
H. beccariana Hampe, Nuovo Giorn. Bot. Ital. 4: 282. 1872.
Other use: *Schizomitrium beccarianum* (Hampe) Manuel, 1981.
H. belangeriana Bescherelle, Ann. Sci. Nat. Bot., ser. 6, 3: 233. 1876.
Other use: *Schizomitrium belangerianum* (Bescherelle) Buck, 1987.
H. bernoullii Hampe in C. Müller, Bull. Herb. Boissier 5: 207. 1897, "*bernoulli*."
Other use: *Schizomitrium bernoullii* (Hampe in C. Müller) F. D. Bowers, 1985.
Note: "*bernouilli*" in Index Muscorum.
H. bisexualis Bescherelle, Ann. Sci. Nat. Bot., ser. 5, 18: 230. 1873.
Other use: *Schizomitrium bisexuale* (Bescherelle) H. A. Miller, H. O. Whittier & B. Whittier, 1978.

Hookeria, continued.

H. brevipes Brotherus, Bot. Jahrb. Syst. 24: 258. 1897.
Other use: *Schizomitrium brevipes* (Brotherus) Ochyra in Ochyra & Pócs, 1982.

H. campbelliana Hampe, Linnaea 38: 668. 1874.
Other use: *Schizomitrium campbellianum* (Hampe) H. A. Miller, H. O. Whittier & B. Whittier, 1978.

H. cheiloneura C. Müller ex Brotherus, Bot. Jahrb. Syst. 24: 257. 1897.
Other use: *Thamniopsis cheiloneura* (C. Müller ex Brotherus) Buck, 1987.

H. chionophylla C. Müller, Flora 69: 282. 1886.
Other use: *Schizomitrium chionophyllum* (C. Müller) Ochyra in Ochyra & Pócs, 1982.

H. chlorina Bescherelle, Ann. Sci. Nat. Bot., ser. 7, 20: 45. 1895 [1894].
Other use: *Schizomitrium chlorinum* (Bescherelle) H. A. Miller, H. O. Whittier & B. Whittier, 1978.

H. ciliata W. P. Schimper in Bescherelle, Mém. Soc. Sci. Nat. Cherbourg 16: 231. 1872.
Other use: *Schizomitrium ciliatum* (W. P. Schimper in Bescherelle) F. D. Bowers, 1985.

H. circinata Brotherus, Bih. Kongl. Svenksa Vetensk.-Akad. Handl. 26 Afd. 3(7): 35. 1900.
Other use: *Schizomitrium circinatum* (Brotherus) Buck, 1985.

H. cirrhosa Hampe, Vidensk. Meddel. Dansk Naturhist. Foren. Kjøbenhavn, ser. 3, 6: 162. 1875.
Other use: *Schizomitrium cirrhosum* (Hampe) Buck, 1987.

H. constricta C. Müller, Flora 69: 515. 1886.
Other use: *Schizomitrium constrictum* (C. Müller) Ochyra in Ochyra & Pócs, 1982.

H. cruegeriana C. Müller, Syn. Musc. Frond. 2: 208. 1851.
Other use: *Thamniopsis cruegeriana* (C. Müller) Buck, 1987.

H. dentata J. D. Hooker & Wilson, London J. Bot. 3: 550. 1844.
Other use: *Achrophyllum dentatum* (J. D. Hooker & Wilson) Vitt & Crosby, 1972.

H. diatomophila C. Müller, Hedwigia 37: 247. 1898.
Other use: *Pilotrichidium diatomophilum* (C. Müller) Crosby, 1970 [1971].

H. diffusa Wilson ex Mitten, J. Linn. Soc., Bot. 12: 354. 1869.
Other use: *Thamniopsis diffusa* (Wilson ex Mitten) Buck, 1987.

H. drepanophylla Geheeb & Hampe, Flora 64: 411. 1881.
Other use: *Trachyxiphium drepanophyllum* (Geheeb & Hampe) Schafer-Verwimp, 1989.

H. fissidentella Bescherelle, Ann. Sci. Nat. Bot., ser. 6, 10: 284. 1880.
Other use: *Schizomitrium fissidentellum* (Bescherelle) Ochyra in Ochyra & Pócs, 1982.

Hookeria, continued.

H. fissidentoides J. D. Hooker & Wilson in W. J. Hooker, Icon. Pl. Rar. 8: pl. 716: a. 1848.
Other use: *Brymela fissidentoides* (J. D. Hooker & Wilson in W. J. Hooker) Buck, 1989.

H. flexicollis Mitten in J. D. Hooker, Handb. N. Zeal. Fl. 496. 1867.
Other use: *Calyptrochaeta flexicollis* (Mitten in J. D. Hooker) Vitt, 1979.

H. fluminensis Geheeb & Hampe, Flora 64: 412. 1881.
Other use: *Brymela fluminensis* (Geheeb & Hampe) Buck, 1987.

H. hahniana Bescherelle, Ann. Sci. Nat. Bot., ser. 6, 3: 234. 1876.
Other use: *Schizomitrium hahnianum* (Bescherelle) H. Crum, 1984.

H. higginsiana Bescherelle ex Higgins, Notes Field-Naturalist W. Tropics 198. 1877.
Note: not in Index Muscorum.

H. hypnacea C. Müller, Bot. Zeitung (Berlin) 14: 421. 1856.
Other use: *Trachyxiphium hypnaceum* (C. Müller) Buck, 1987.

H. lacerans C. Müller, Linnaea 40: 250. 1876.
Other use: *Schizomitrium lacerans* (C. Müller) Ochyra in Ochyra & Pócs, 1982.

H. langsdorffii W. J. Hooker, Musci Exot. 2: 17. pl. 121. 1819.
Other use: *Thamniopsis langsdorffii* (W. J. Hooker) Buck, 1987.

H. leptocladula C. Müller ex Brotherus, Bot. Jahrb. Syst. 24: 258. 1897.
Other use: *Schizomitrium leptocladulum* (C. Müller ex Brotherus) Ochyra in Ochyra & Pócs, 1982.

H. leskeoides W. J. Hooker, Musci Exot. 1: 55. 1818.
Other use: *Homalothecium leskeoides* (W. J. Hooker) H. Robinson, 1962 [1963].

H. maclaudii Paris & Brotherus in Paris, Rev. Bryol. 30: 103. 1903.
Other use: *Schizomitrium maclaudii* (Paris & Brotherus in Paris) Ochyra in Ochyra & Pócs, 1982.

H. martiana Hornschuch, Fl. Bras. 1(2): 63. pl. 3: f. 3. 1840.
Other use: *Schizomitrium martianum* (Hornschuch) Crosby, 1975.

H. melanotheca Duby ex Bescherelle, Ann. Sci. Nat. Bot., ser. 5, 18: 230. 1873.
Other use: *Schizomitrium melanotheca* (Duby ex Bescherelle) H. A. Miller, H. O. Whittier & B. Whittier, 1978.

H. meridensis C. Müller, Flora 83: 336. 1897.
Other use: *Helicoblepharum meridense* (C. Müller) Crosby, 1974.

H. merkelii Hornschuch, Fl. Bras. 1(2): 62. pl. 3: f. 1. 1840.
Other use: *Schizomitrium merkelii* (Hornschuch) Florschütz-de Waard, 1986.

H. mniifolia Hornschuch, Linnaea 15: 141. 1841.
Other use: *Leskeodon mniifolius* (Hornschuch) Bizot in Bizot & Pócs, 1974.

H. nervosa J. D. Hooker & Wilson, London J. Bot. 3: 549. 1844.
Other use: *Crosbya nervosa* (J. D. Hooker & Wilson) Vitt, 1977.

Hookeria, continued.

H. nukahivensis Bescherelle, Ann. Sci. Nat. Bot., ser. 4, 20: 45. 1895 [1894].
Replaced name: *Hookeria pallens* W. P. Schimper in Jardin, 1875.
Blocking name: *Hookeria pallens* Mitten, 1869.
Other use: *Schizomitrium nukahivense* (Bescherelle) H. A. Miller, H. O. Whittier & B. Whittier, 1978.

H. obscura Montagne, Ann. Sci. Nat. Bot., ser. 3, 4: 93. 1845.
Other use: *Pterygophyllum crassirete* Matteri, 1972.

H. oerstediana C. Müller, Syn. Musc. Frond. 2: 679. 1851.
Other use: *Schizomitrium oerstedianum* (C. Müller) H. Crum, 1984.

H. pallida Hornschuch in C. Martius, Fl. Bras. 1(2): 64. pl. 3: f. 1. 1840.
Other use: *Schizomitrium pallidum* (Hornschuch in C. Martius) H. Crum & L. E. Anderson, 1981.

H. pappeana Hampe, Icon. Musc. 2. 1844.
Other use: *Thamniopsis pappeana* (Hampe) Buck, 1987.

H. parkeriana W. J. Hooker & Greville, Edinburgh J. Sci. 2: 229. 5. 1825.
Other use: *Brymela parkeriana* (W. J. Hooker & Greville) Buck, 1987.

H. pernutans C. Müller, Linnaea 42: 496. 1879.
Other use: *Trachyxiphium pernutans* (C. Müller) Buck, 1987.

H. perrotii Renauld & Cardot ex Paris, Index Bryol. Suppl. 187. 1900, "*perroti*."
Replaced name: *Callicostella heterophylla* Renauld & Cardot, 1896.
Blocking name: *Callicostella heterophylla* Ångström, 1873.
Other use: *Schizomitrium perrotii* (Renauld & Cardot ex Paris) Ochyra in Ochyra & Pócs, 1982.

H. plumicaulis C. Müller, Linnaea 42: 496. 1879.
Other use: *Isopterygium plumicaule* (C. Müller) Buck, 1987.

H. prabaktiana C. Müller, Syn. Musc. Frond. 2: 678. 1851.
Other use: *Schizomitrium prabaktianum* (C. Müller) H. A. Miller, H. O. Whittier & B. Whittier, 1978.

H. purpureophylla C. Müller ex Britton, Bull. Torrey Bot. Club 23: 492. 1896.
Other use: *Thamniopsis purpureophylla* (C. Müller ex Britton) Buck, 1987.

H. quadrifaria Smith, Trans. Linn. Soc. London 9: 277. pl. 23: f. 1. 1808.
Other use: *Achrophyllum quadrifarium* (Smith) Vitt & Crosby, 1972.

H. radicans Bescherelle, Ann. Sci. Nat. Bot., ser. 6, 3: 234. 1876.
Other use: *Schizomitrium radicans* (Bescherelle) H. Crum, 1984.

H. rivularis Mitten, J. Linn. Soc., Bot. 12: 353. 1869.
Other use: *Schizomitrium rivulare* (Mitten) H. Crum, 1984.

H. rufescens Mitten, J. Linn. Soc., Bot. 12: 352. 1869.
Other use: *Schizomitrium rufescens* (Mitten) Florschütz-de Waard, 1986.

H. rugulosa Mitten, J. Linn. Soc., Bot. 12: 358. 1869.
Other use: *Brymela rugulosa* (Mitten) Buck, 1987.

H. salaziae Bescherelle, Ann. Sci. Nat. Bot., ser. 6, 10: 284. 1880.
Other use: *Schizomitrium salaziae* (Bescherelle) Ochyra in Ochyra & Pócs, 1982.

H. secunda Griffith, Calcutta J. Nat. Hist. 3: 280. 1843.
Other use: *Thamniopsis secunda* (Griffith) Buck, 1987.

Hookeria, continued.

H. seychellensis Bescherelle, Ann. Sci. Nat. Bot., ser. 6, 10: 285. 1880.
Other use: *Schizomitrium seychellense* (Bescherelle) Ochyra in Ochyra & Pócs, 1982.

H. sinuata Mitten, J. Linn. Soc., Bot. 12: 358. 1869.
Other use: *Thamniopsis sinuata* (Mitten) Buck, 1987.

H. splendidissima Montagne, Ann. Sci. Nat. Bot., ser. 2, 4: 97. 1835.
Other use: *Schimperobryum splendidissimum* (Montagne) Margadant, 1959.

H. subdepressa Bescherelle, J. Bot. (Morot) 5: 345. 1891.
Other use: *Schizomitrium subdepressum* (Bescherelle) Buck, 1985.

H. subfalcata Hampe, Ann. Sci. Nat. Bot., ser. 5, 5: 305. 1866.
Other use: *Trachyxiphium subfalcatum* (Hampe) Buck, 1987.

H. subfissidentoides W. P. Schimper ex Bescherelle, Ann. Sci. Nat. Bot., ser. 6, 3: 235. 1876.
Other use: *Schizomitrium subfissidentoides* (W. P. Schimper ex Bescherelle) H. Crum, 1984.

H. subsecunda Mitten, J. Linn. Soc., Bot. 12: 358. 1869.
Other use: *Schizomitrium subsecundum* (Mitten) Buck, 1987.

H. tenuis Mitten, J. Linn. Soc., Bot. 12: 355. 1869.
Other use: *Trachyxiphium tenue* (Mitten) Buck, 1987.

H. terrestris Mitten, J. Linn. Soc., Bot. 12: 356. 1869.
Other use: *Thamniopsis terrestris* (Mitten) Buck, 1987.

H. torrentium Brotherus, Bih. Kongl. Svenksa Vetensk.-Akad. Handl. 26 Afd. 3(7): 34. 1900.
Other use: *Schizomitrium torrentium* (Brotherus) Buck, 1985.

H. tristis C. Müller, Hedwigia 38: 130. 1899.
Other use: *Schizomitrium triste* (C. Müller) Ochyra in Ochyra & Pócs, 1982.

H. usambarica Brotherus, Bot. Jahrb. Syst. 20: 202. 1894.
Other use: *Schizomitrium usambaricum* (Brotherus) Ochyra in Ochyra & Pócs, 1982.

H. utacamundiana Montagne, Ann. Sci. Nat. Bot., ser. 2, 17: 247. 1842.
Other use: *Thamniopsis utacamundiana* (Montagne) Buck, 1987.

H. vaga Mitten, J. Linn. Soc., Bot. 12: 266. 1869.
Other use: *Trachyxiphium vagum* (Mitten) Buck, 1987.

H. variabilis Hornschuch ex Mitten, J. Linn. Soc., Bot. 12: 359. 1869.
Other use: *Trachyxiphium variabile* (Hornschuch ex Mitten) Buck, 1987.

H. vesiculata C. Müller, J. Mus. Godeffroy 3(6): 76. 1874.
Other use: *Schizomitrium vesiculatum* (C. Müller) H. A. Miller, H. O. Whittier & B. Whittier, 1978.

H. wrightii Sullivant & Lesquereux, Proc. Amer. Acad. Arts 4: 282. 1859.
Other use: *Stenodictyon wrightii* (Sullivant & Lesquereux) Crosby, 1976.

Hookeriopsis (Bescherelle) Jaeger, 1877.

**H. armata* E. B. Bartram, J. Wash. Acad. Sci. 42: 181. 1952.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Hookeriopsis armata* Brotherus, 1921.
Correct name: *Hookeriopsis bartramii* Sehnem, 1969.

H. balazsii Bizot, Acta Bot. Acad. Sci. Hung. 18: 13. f. 4: 1-4. 1973.
Type: Cameroun. Mt. Cameroun, 1400 m, *Balazs 75*. Holotype: DI; isotype: EGR.

H. bartramii Sehnem, Pesquisas, Bot. 27: 10. 1969.
Replaced name: *Hookeriopsis armata* E. B. Bartram, 1952.
Blocking name: *Hookeriopsis armata* Brotherus, 1921.

H. borneensis Noguchi & Iwatsuki, J. Hattori Bot. Lab. 36: 480. f. 7. 1972.
Type: Malaysia [Borneo]. Sabah: Mt. Kinabalu, between Sosopodon and S. Kelinggen, 1350-1400 m, *Iwatsuki 1493c*. Holotype: NICH. Paratype cited.

H. bowersiana H. Crum, Bryologist 89: 25. f. 18-21. 1986.
Type: Mexico. Oaxaca: Sierra Juarez, above Tuxtepec, 5400 feet, *Sharp 3915*. Holotype: TENN; isotype: MICH. Paratypes cited.

H. callicostelloides Herzog & Thériot, Hedwigia 74: 110. 1935 [1934].
Other use: *Brymela callicostelloides* (Herzog & Thériot) Buck, 1987.

H. crosbyi B. H. Allen, Bryologist 90: 45. f. 1-13. 1987.
Type: Panama. Chiriqui: along Holcomb Trail to Cerro Horqueta, vicinity of Campo Uno, north of Boquete, 6500 feet, *Crosby 4075*. Holotype: MO; isotypes: BA, BM, H, NICH, PMA. Paratypes cited.
Original placement: sect. *Hookeriopsis*.

H. cuspidata Jaeger, Ber. Thätigk. St. Gallischen Naturwiss. Ges. 1875-76: 359 (Gen. Sp. Musc. 2: 1013). 1877.
Replaced name: *Hookeria cuspidata* Mitten, 1869.
Other use: *Brymela cuspidata* (Jaeger) Buck, 1989.
Note: new name, based on adoption of earlier epithet (Article 72.Note 1).

H. guatemalensis E. B. Bartram, Bryologist 49: 120. 1946.
Other use: *Schizomitrium guatemalense* (E. B. Bartram) Florschütz-de Waard, 1986.

H. heteroica Cardot, Rev. Bryol. 37: 51. 1910.
Other use: *Trachyxiphium heteroicum* (Cardot) Buck, 1987.

H. heterophylla Sehnem, Pesquisas, Bot. 32: 22. pl. 6: a. 1978.
Type: Brazil. Rio Grande do Sul: Montenegro, Linha Sao Pedro, 450 m, *Sehnem 2992*. Herbarium not specified by author. Other indicated distribution: Brazil (Parana).

**H. majurei* E. B. Bartram ex Wijk, Margadant & Florschütz, Regnum Veg. 65: 691 (Ind. Musc. 5: 691). 1969.
*invalid, orthographic variant (Article 75.1).
Correct name: *Hookeriopsis maguirei* E. B. Bartram, 1960.

H. obtusifolia E. B. Bartram, Contr. U.S. Natl. Herb. 26: 101. 1928.
Other use: *Brymela obtusifolia* (E. B. Bartram) Buck, 1987.

Hookeriopsis, continued.
H. pocsii Bizot, Cryptog. Bryol. Lichénol. 1: 426. pl. 3: f. 6. 1980.
Type: Tanzania. Uluguru Mts. above Morogoro town, NE ridge leading to top of Bondwa, 1850-2050 m, *Pócs 6898/C*. Holotype: EGR; isotype: herb. Bizot.
H. saxicola (R. S. Williams) B. H. Allen, Crosby & Magill, Lindbergia 11: 156. 1986.
Basionym: *Stenodictyon saxicola* R. S. Williams, 1910.
H. steerei Griffin, J. Bryol. 14: 297. f. 1. 1986.
Type: Venezuela. Merida: paramo do Los Conejos, 3300 m, *Griffin & Lopez F. PV-625*. Holotype: MERF; isotypes: FLAS, NY.
H. stenodictyon Sehnem, Pesquisas, Bot. 33: 30. pl. 8: a. 1979.
Type: Brazil. Rio Grande do Sul: Porto Alegre, Bairro Gloria, 200 m, *Sehnem 556*. Herbarium not specified by author. Other indicated distribution: Brazil (Santa Catarina).
H. venezuelensis E. B. Bartram, Bol. Soc. Venez. Ci. Nat. 25: 40. 1963.
Type: Venezuela. Sierra Ichun, cercanias del Salto Maria Espuma (Salto Ichun), 500 m, *Steyermark 90369*. Holotype: herb. Bartram; isotype: VEN.
H. websteri H. Crum & E. B. Bartram, Bull. Inst. Jamaica, Sci. Ser. 8: 54. 1958.
Other use: *Brymela websteri* (H. Crum & E. B. Bartram) Buck, 1987.
H. welchiana H. Crum, Bryologist 89: 25. f. 12-13. 1986.
Type: Mexico. Puebla: Cerro de Cuhuatepec (SE Puebla), 3500 feet, *Sharp 1367aa*. Holotype: MICH.

Horikawaea Noguchi, 1937.
H. dubia (Tixier in Pócs & Tixier) Lin Shan-Hsiung, J. Hattori Bot. Lab. 55: 299. 1984.
Basionym: *Pterobryopsis dubia* Tixier in Pócs & Tixier, 1967.
Note: invalid, basionym not cited (Article 33.2), in J. Taiwan Mus. 36(2): 37. 1983.

Horridohypnum Buck, Bryologist 83: 463. 1980 [1981].
Type: *Pterigynandrum filiforme* var. *mexicanum* Thériot, *H. mexicanum* (Thériot) Buck, holotype.
Original placement: Sematophyllaceae.
H. mexicanum (Thériot) Buck, Bryologist 83: 463. 1980 [1981].
Basionym: *Pterigynandrum filiforme* var. *mexicanum* Thériot, 1928.

Husnotiella Cardot, 1909.
H. latifolia (Dixon) Zander & Magill in Magill & Schelpe, Mem. Bot. Surv. South Africa 43: 7. 1979.
Basionym: *Gyroweisia latifolia* Dixon, 1922.
H. obtusifolia (Brotherus) Zander, Bryologist 80: 265. 1977.
Basionym: *Gyroweisia obtusifolia* Brotherus, 1902.

Husnotiella, continued.

H. plicata Magill, Fl. S. Africa, Bryophyta, Mosses 1: 222. f. 64: 10-18. 1981 [1982].

Type: Lesotho. 210 km E of Maseru along Mountain Road, 1 km E of Taung, in small canyon along Orange River, *Magill 4216*. Holotype: PRE; isotypes: H, MO, NY.

Hydrogonium (C. Müller) Jaeger, 1880.

H. aneitense (Brotherus & Watts) Schultze-Motel, Willdenowia 7: 55. 1973.

Basionym: *Barbula aneitensis* Brotherus & Watts, 1915.

H. decolyi Gangulee, Nova Hedwigia 12: 426. pl. 6. 1966 [1967].

Type: India. Sonadah, prope Darjeeling, *Decoly & Schaul*, 1899 (Bryoth. Levier). Holotype: BM.

H. dicranelloides Gangulee, Nova Hedwigia 12: 427. pl. 6. 1966 [1967].

Type: India. Dehradun, *Mackinon*, 1897 (Gangulee 5939). Holotype: Presidency College, Calcutta.

H. heterophyllum J. Fröhlich, Ann. Naturhist. Mus. Wien 67: 154. 1964.

Type: Pakistan. Swat: Himalaya bor.-occid. Utror, *Rechinger 19866*. Holotype: W. Paratypes cited.

H. leucobasis (Dixon in Dixon & Greenwood) Schultze-Motel, Willdenowia 7: 371. 1974.

Basionym: *Barbula leucobasis* Dixon in Dixon & Greenwood, 1930.

H. leucodontoides Gangulee, Nova Hedwigia 12: 425. pl. 5. 1966 [1967].

Type: India. Mussoorie, *Gollan*, 1895 (Bryoth. Levier 1060). Holotype: CAL.

**H. leucodontoides* C. Müller in Paris ex R. S. Chopra, Taxon. Indian Mosses 145. 1975.

*illegitimate, later homonym (Article 64.1).

Earlier name: *Hydrogonium leucodontoides* Gangulee, 1966 [1967].

Type: India. Mussoorie, *Gollan 1331*. Holotype: NY.

H. louisiadum (Brotherus) Schultze-Motel, Willdenowia 7: 55. 1973.

Basionym: *Barbula louisiadum* Brotherus, 1899 [1900].

H. mamatkulovii Lazarenko, Dopov. Akad. Nauk Ukrajins'k. RSR 1967: 753. f. 2. 1967.

Type: U.S.S.R. Tadzh S.S.R.: Mt. Sanglok, near Nurek village, *Mamatkulov*, 1966. Herbarium not specified by author.

H. mussoorianum Vohra, J. Bombay Nat. Hist. Soc. 63: 464. f. 1-8. 1966 [1967].

Type: India. W. Himalayas, Mussoorie, in Himalaya Septentrionali Occidentali, 2000 m, *Vohra 453A*. Holotype: CAL.

H. patulifolium J. Fröhlich, Ann. Naturhist. Mus. Wien 67: 154. 1964.

Type: Afghanistan. Kabul: Salar inter Kabul et Ghazni, *Rechinger 19719a*. Holotype: W. Paratypes cited.

H. rechingeri (Brotherus) Schultze-Motel, Willdenowia 7: 55. 1973.

Basionym: *Barbula rechingeri* Brotherus, 1913.

Hydrogonium, continued.
H. taylorii W. A. Weber, Lindbergia 3: 81. 1975, "*taylori*."
Replaced name: *Barbula taylorii* E. B. Bartram & Steere, 1936.
Blocking name: *Barbula taylorii* Lindberg, 1863.
Note: new name, based on adoption of earlier epithet (Article 72.Note 1).
H. tisserantii (Potier de la Varde) Schultze-Motel, Willdenowia 7: 491. 1975.
Basionym: *Didymodon tisserantii* Potier de la Varde, 1929.
H. williamsii Chen Pan-chieh, Hedwigia 80: 239. pl. 44: f. 6-9. 1941.
Other use: *Barbula williamsii* (Chen Pan-chieh) Iwatsuki & B. C. Tan, 1979.

Hygroamblystegium Loeske, 1903, conserved name.
H. calcareum Kanda, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 15: 221. f. 8: 23-30; 10. 1975 [1976].
Type: Japan [Kyushu]. Kumamoto: NI-52-12, Hinagu, Konose, 80 m, *Mayebara s.n.* Holotype: NICH; isotype: HIRO.
H. ecuadorense E. B. Bartram, Rev. Bryol. Lichénol. 33: 13. 1964 [1965].
Type: Ecuador. Hacinda Antisana, 4050 m, *Grubb 2649*. Holotype: BM.
H. fluviatile (Hedwig) Loeske, 1903.
H. fluviatile var. *julaceum* (Buysson) Wijk & Margadant, Taxon 14: 197. 1965.
Basionym: *Amblystegium fluviatile* var. *julaceum* Buysson, 1889.
H. fluviatile var. *orthocladon* (Palisot de Beauvois) H. Crum, Steere & L. E. Anderson, Bryologist 68: 432. 1965 [1966], "*orthocladum*."
Basionym: *Hypnum orthocladon* Palisot de Beauvois, 1805.
H. gangulianum Vohra, Bull. Bot. Surv. India 22: 115. f. 1-7. 1980 [1982].
Type: India. Himalayas, Mussoorie Landour, *Kenoyer & Dudgeon 35*. Holotype: BM.
H. macroneuron Grout, Bryologist 36: 1. f. 1-5. 1933.
Other use: *Donrichardsia macroneuron* (Grout) H. Crum & L. E. Anderson, 1979, *Eurhynchium macroneuron* (Grout) H. Crum, 1969.
H. tenax (Hedwig) Jennings, 1913.
H. tenax fo. *cavernicola* Grom, Acta Bot. Croat. 26-27: 251. 1967-68 [1968].
Type: Yugoslavia. In caverna glacialis "Verlika ledenica" in silvas "Trnovski gozd." *Wraber 688*. Holotype: herb. Grom.

Hygrohypnum Lindberg, 1872.
H. sect. *Dilatatae* Szafran ex Ochyra, J. Bryol. 12: 619. 1983.
Type: *Limnobium duriusculum* De Notaris, *H. duriusculum* (De Notaris) Jamieson, holotype.
H. alpinum (Lindberg) Loeske, 1904.
H. alpinum var. *tsurugizanicum* (Cardot) Noguchi & Iwatsuki in Iwatsuki & Noguchi, J. Jap. Bot. 48: 216. 1973.
Basionym: *Hygrohypnum tsurugizamicum* Cardot, 1913.
H. arsenei H. Crum, Bryologist 88: 23. f. 5-8. 1985.
Type: Mexico. Puebla: San Felipe, vicinity of Puebla, 2100 m, *Arsène 4505*. Holotype: US.

Hygrohypnum, continued.

H. choprae Vohra, Bull. Bot. Surv. India 22: 117. f. 14-21. 1980 [1982].
Type: India. Darjeeling, Himalayas, 2400 m, *Chopra 115*. Holotype: BM; isotype: CAL.

H. duriusculum (De Notaris) Jamieson, Taxon 29: 152. 1980.
Basionym: *Limnobium duriusculum* De Notaris, 1869.

**H. eumontanum* H. Crum, Steere & L. E. Anderson, Bryologist 68: 433. 1965 [1966].
*illegitimate, type of earlier name included (Article 63.1).
Correct name: *Hygrohypnum montanum* (Lindberg) Brotherus, 1908.

H. falcifolium E. B. Bartram, Rev. Bryol. Lichénol. 33: 327. 1964-65 [1965].
Type: Argentina. Tucuman: Carapunco, Infiernillo, 2800 m, *Lamb 12576*. Holotype: herb. Bartram.

H. hedbergii Potier de la Varde, Ark. Bot., ser. 2, 3(8): 186. 30. 1955 [1957].
Other use: *Platyhypnidium hedbergii* (Potier de la Varde) Ochyra & A. J. Sharp, 1988.

H. kiusianum Sakurai, Bot. Mag. (Tokyo) 46: 379. 1932.
Other use: *Eurhynchium muelleri* var. *kiusianum* (Sakurai) Iwatsuki & Noguchi, 1973.

H. luridum (Hedwig) Jennings, 1913.

H. luridum fo. *serratum* Flowers, Bryologist 76: 290. 1973.
Type: U.S.A. Utah: Washington Co., Berry Spring, ca. 2 miles W of Hurricane, 2365 feet, *Flowers 8157*. Holotype: UT.

H. luridum var. *tatricum* (Lisowski) Ochyra & Szmajda, Fragm. Florist. Geobot. 24: 141. 1978.
Basionym: *Hygrohypnum palustre* var. *tatricum* Lisowski, 1959.

H. luridum fo. *tenue* Flowers, Bryologist 76: 290. 1973.
Type: U.S.A. Utah: Salt Lake Co., Holladay, 4560 feet, *Flowers 9297*. Holotype: UT.

H. mizushimae Sakurai, J. Jap. Bot. 27: 281. f. 6. 1952.
Other use: *Leptodictyum mizushimae* (Sakurai) Kanda, 1975 [1976].

H. nairii Vohra, Bull. Bot. Surv. India 22: 117. f. 8-13. 1980 [1982].
Type: India. Kumaon, Himalayas, Pithoragarh Kalamuni Pass, 3200 m, *Nair M 12*. Holotype: CAL.

**H. palustre* Loeske, 1903.
*illegitimate, type of earlier name included (Article 63.1).

H. palustre var. *tatricum* Lisowski, Prace Komis. Biol. 21: 86. pl. 10: 1-4. 1959.
Other use: *Hygrohypnum luridum* var. *tatricum* (Lisowski) Ochyra & Szmajda, 1978.

H. peruviense R. S. Williams, Bull. Torrey Bot. Club 43: 332. pl. 18: f. 7-12. 1916.
Other use: *Rhynchostegium peruviense* (R. S. Williams) Ochyra in Schultze-Motel & Menzel, 1987.

H. purpurascens Brotherus, Oefers. Förh. Finska Vetensk.-Soc. 62A(9): 36. 1921.
Other use: *Pseudohygrohypnum purpurascens* (Brotherus) Kanda, 1976 [1977].

Hygrohypnum, continued.
H. reduncum (W. P. Schimper ex Mitten) Nishimura, J. Hattori Bot. Lab. 58: 73. 1985.
Basionym: *Ctenidium reduncum* W. P. Schimper ex Mitten, 1869.
H. robinsonii H. Crum, Bryologist 88: 22. f. 1-4. 1985.
Type: Mexico. Oaxaca: ravine near km 104, Rte. 175, Sierra Juarez, above Valle Nacional, *Robinson 10168*. Holotype: US.
H. steerei A. J. Sharp, Bryologist 81: 319. f. 1-8. 1978.
Type: Mexico. Tamaulipas: Rio Sabinas, W of El Encino, *Sharp & Budnik 8752*. Holotype: TENN; isotypes: DUKE, ENCB, F, FH, FLAS, LAF, MEXU, MICH, MO, NICH, NY, PAC, US, VC, WTU, XAL.
H. tsurugizamicum Cardot, Bull. Soc. Bot. Genève, ser. 2, 5: 322. 1913.
Other use: *Hygrohypnum alpinum* var. *tsurugizanicum* (Cardot) Noguchi & Iwatsuki in Iwatsuki & Noguchi, 1973.
H. validum Herzog, Biblioth. Bot. 87: 146. 1916.
Other use: *Rhynchostegium validum* (Herzog) Ochyra in Schultze-Motel & Menzel, 1987.

Hylocomiastrum Fleischer ex Brotherus in Engler & Prantl, 1925.
H. umbratum (Ehrhart ex Hedwig) Fleischer in Brotherus, 1925.
H. umbratum var. *grossedentatum* Baumgartner, Symb. Sin. 2: 78. 1937.
Note: not in Index Muscorum.

Hylocomium Bruch & W. P. Schimper in B.S.G., 1852.
H. subgen. *Rhytidiopsis* (Brotherus in Engler & Prantl) Noguchi, J. Hattori Bot. Lab. 35: 167. 1972.
Basionym: *Rhytidiopsis* Brotherus in Engler & Prantl, 1908.
H. brevirostre (Bridel) W. P. Schimper in B.S.G., 1852, "*brevirostrum*."
H. brevirostre fo. *elongatum* (Reimers & Sakurai) Iwatsuki & Noguchi, J. Jap. Bot. 48: 216. 1973.
Basionym: *Loeskeobryum cavifolium* fo. *elongatum* Reimers & Sakurai, 1931.
H. brevirostre fo. *longisetum* (Sakurai) Iwatsuki & Noguchi, J. Jap. Bot. 48: 216. 1973.
Basionym: *Loeskeobryum cavifolium* var. *longisetum* Sakurai, 1939.
H. brevirostre fo. *vermiculare* (Reimers & Sakurai) Iwatsuki & Noguchi, J. Jap. Bot. 48: 216. 1973.
Basionym: *Loeskeobryum cavifolium* fo. *vermiculare* Reimers & Sakurai, 1931.
H. dentatum (Thériot) Steere, Monogr. Syst. Bot. Missouri Bot. Gard. 11: 164. 1985.
Basionym: *Pterobryopsis dentata* Thériot, 1944.
H. giganteum E. B. Bartram, Bryologist 49: 124. 1946.
Other use: *Loeskeobryum giganteum* (E. B. Bartram) Rohrer, 1985.
H. indicum Dixon, Notes Roy. Bot. Gard. Edinburgh 19: 299. f. 13. 1938.
Other use: *Ptychodium indicum* (Dixon) Rohrer, 1986.
H. interruptum (Bridel) Margadant, Lindbergia 1: 128. 1972.
Basionym: *Hypnum interruptum* Bridel, 1801.

Hylocomium, continued.

H. splendens (Hedwig) W. P. Schimper in B.S.G., 1852.

H. splendens var. *brevisetum* (Bridel) Wijk & Margadant, Taxon 17: 467. 1968.
Basionym: *Hypnum proliferum* var. *brevisetum* Bridel, 1801.

H. splendens subsp. *giganteum* Persson ex Vitt in Persson & Viereck, Lindbergia 9: 15. 1983.
Type: Canada. British Columbia: Nelson Area, on road to Kokanee Glacier Prov. Park, ca. 19.2 km NE of Nelson & 1.3 km N of Hwy. 3A, 49°37' N, 117°07' W, *Vitt 22348*. Holotype: ALTA; isotypes: ALA, C, CANM, COLO, GL, H, IRK, MO, NY, PE, S, UBC, WTU.

H. splendens var. *tenue* A. J. Sharp, Bryologist 36: 21. 1933.
Other use: *Pterigynandrum sharpii* H. Crum & L. E. Anderson, 1967.

H. subpinnatum Lindberg, Hedwigia 6: 41. 1867.
Replaced name: *Hypnum subpinnatum* Lindberg in C. J. Hartman, 1864.
Blocking name: *Hypnum subpinnatum* (Bridel) Arnott, 1827.
Other use: *Rhytidiadelphus subpinnatus* (Lindberg) T. Koponen, 1971.
Note: new name, based on adoption of earlier epithet (Article 72.Note 1).

H. yunnanense Bescherelle, Ann. Sci. Nat. Bot., ser. 7, 15: 93. 1892.
Other use: *Neodolichomitra yunnanensis* (Bescherelle) T. Koponen, 1971.

Hymenodon J. D. Hooker & Wilson, 1844.

H. aeruginosus (J. D. Hooker & Wilson) C. Müller, 1847.

H. aeruginosus var. *clementii* Thériot ex Bizot, Bull. Mens. Soc. Linn. Soc. Bot. Lyon 34: 314. 1965, "*clementi*."
Type: Cuba. Sierra Maestra, *Clement 2082*. Holotype: herb. Thériot.
Note: invalid, no Latin description (Article 36.1), in Thériot, Mem. Soc. Bot. Cub. Hist. Nat. "Felipe Poey" 13(5): 280. 1939.

H. parvulus E. B. Bartram, Svensk Bot. Tidskr. 47: 399. 1953.
Other use: *Powellia parvula* (E. B. Bartram) T. Koponen & Norris, 1986.

H. pilifer J. D. Hooker & Wilson, 1844.

H. pilifer subsp. *sericeus* (Dozy & Molkenboer) Karttunen & Back, Ann. Bot. Fenn. 25: 90. 1988.
Basionym: *Mielichhoferia sericea* Dozy & Molkenboer, 1844.

H. pilifer subsp. *tenellus* (Brotherus & Paris) Karttunen & Back, Ann. Bot. Fenn. 25: 90. 1988.
Basionym: *Hymenodon tenellus* Brotherus & Paris, 1911.

H. reggaeus Karttunen & Back, Ann. Bot. Fenn. 25: 91. f. 2: a-g. 1988.
Type: Jamaica, *Boergesen*, 1906. Holotype: H-Brotherus.
Original placement: sect. *Polystichella*.

H. tenellus Brotherus & Paris, Oefers. Förh. Finska Vetensk.-Soc. 53A(11): 21. 1911.
Other use: *Hymenodon pilifer* subsp. *tenellus* (Brotherus & Paris) Karttunen & Back, 1988.

Hymenostomum R. Brown, 1819.
H. contortum Kunze in Holler, Flora 13: 373. 1830.
Other use: *Trichostomum contortum* (Kunze in Holler) Sérgio, 1985.
H. crispatum Nees & Hornschuch, Bryol. Germ. 1: 204. pl. 12: f. 7. 1823.
Other use: *Weissia controversa* var. *crispata* (Nees & Hornschuch) Nyholm, 1969.
H. inoperculatum H. Crum, Madroño 14: 74. f. 1-6. 1957.
Other use: *Weissia inoperculata* (H. Crum) H. Crum, Steere & L. E. Anderson, 1964.
H. malayense Fleischer, Musci Buitenzorg 1: 315. f. 54. 1904.
Other use: *Weissia malayensis* (Fleischer) Manuel, 1981.
H. newcomeri E. B. Bartram, Bryologist 50: 162. f. f-h. 1947.
Other use: *Weissia newcomeri* (E. B. Bartram) K. Saito, 1975.
H. obliquum Nees & Hornschuch, Bryol. Germ. 1: 194. pl. 12: f. 2. 1823.
Other use: *Weissia brachycarpa* var. *obliqua* (Nees & Hornschuch) M. O. Hill, 1981 [1982].
H. papillosissimum (Lazarenko) Savicz-Ljubitskaya, Novosti Sist. Niz. Rast. 6: 248. 1969 [1970].
Basionym: *Weissia papillosissima* Lazarenko, 1967.
H. semidiaphanum Thériot, Smithsonian Misc. Collect. 85(4): 5. f. 3. 1931.
Other use: *Weissia semidiaphana* (Thériot) Zander, 1985.

Hymenostyliella E. B. Bartram, 1939.
H. alata (Herzog) H. Robinson, Phytologia 21: 3. 1971.
Basionym: *Timmiella alata* Herzog, 1925.
H. calcarea (Dixon) Iwatsuki, J. Hattori Bot. Lab. 40: 146. 1976.
Basionym: *Diphyscium calcareum* Dixon, 1932.
H. japonica (Brotherus) K. Saito, J. Jap. Bot. 46: 145. 1971.
Basionym: *Molendoa japonica* Brotherus, 1921.
H. llanosii (C. Müller) H. Robinson, Phytologia 21: 2. 1971.
Basionym: *Barbula llanosii* C. Müller, 1900.

Hymenostylium Bridel, 1827.
H. aurantiacum Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 32. 1859.
Other use: *Hymenostylium recurvirostre* var. *aurantiacum* (Mitten) Gangulee, 1972.
H. diversifolium J. Fröhlich, Ann. Naturhist. Mus. Wien 67: 152. 1964.
Type: Afghanistan, *Rechinger 19882*. Holotype: W.
H. glaucum (C. Müller) Brotherus, 1902.
H. glaucum var. *cylindricum* E. B. Bartram, J. Wash. Acad. Sci. 26: 8. 1936.
Other use: *Hymenostylium recurvirostre* var. *cylindricum* (E. B. Bartram) Zander, 1982.
H. grandirete Dixon, Anniv. Vol. Bot. Gard. Calcutta 178. 1942.
Note: not in Index Muscorum.

Hymenostylium, continued.

H. recurvirostre (Hedwig) Dixon, 1933 [1934].

H. recurvirostre var. *aurantiacum* (Mitten) Gangulee, Mosses E. India 3: 648. 1972.

Basionym: *Hymenostylium aurantiacum* Mitten, 1859.

H. recurvirostre var. *cylindricum* (E. B. Bartram) Zander, Canad. J. Bot. 60: 1599. 1982.

Basionym: *Hymenostylium glaucum* var. *cylindricum* E. B. Bartram, 1936.

Hyophila Bridel, 1827.

H. acutifolia K. Saito, J. Hattori Bot. Lab. 39: 470. f. 38: 1-15. 1975.

Type: Japan [Fukushima]. Fukushima: Mt. Shinobu, *Igarashi 1340*. Holotype: TNS.

**H. crenulata* Machado Guimaraes, Bróteria, Sér. Bot. 15: 8. 1917.

*illegitimate, later homonym (Article 64.1).

Earlier name: *Hyophila crenulata* C. Müller ex Dusén, 1895.

Correct name: *Hyophila machadoana* Sérgio, 1969 [1970].

**H. crenulata* var. *brevifolia* Bizot, Svensk Bot. Tidskr. 63: 444. 1969.

*invalid, single element not cited as holotype (Article 37.3).

Type: Cape Verde Islands. *Byström*, 1958. Several collections by Byström cited, none indicated as holotype.

H. khartoumensis (Pettet) A. J. E. Smith & H. Whitehouse, J. Bryol. 8: 14. 1974.

Basionym: *Tortula khartoumensis* Pettet, 1967.

H. kurziana Gangulee, Nova Hedwigia 12: 422. pl. 4. 1966 [1967].

Type: India. Darjeeling, *Kurz 2374*. Holotype: CAL.

H. lingulata Cardot, Rev. Bryol. 37: 121. 1910.

Other use: *Hyophilopsis lingulata* (Cardot) H. Crum, 1965, *Neohyophila lingulata* (Cardot) H. Crum, 1965 [1966].

H. lusitanica Cardot & Dixon, Rev. Bryol. 39: 41. f. 1. 1912.

Other use: *Bryoerythrophyllum lusitanicum* (Cardot & Dixon) M. O. Hill, 1981 [1982].

H. machadoana Sérgio, Rev. Bryol. Lichénol. 36: 628. 1969 [1970].

Replaced name: *Hyophila crenulata* Machado Guimaraes, 1917.

Blocking name: *Hyophila crenulata* C. Müller ex Dusén, 1895.

Other use: *Bryoerythrophyllum machadoanum* (Sérgio) M. O. Hill, 1981 [1982].

H. stanfordensis (Steere) A. J. E. Smith & H. Whitehouse, J. Bryol. 8: 13. 1974.

Basionym: *Tortula stanfordensis* Steere, 1951.

H. stomatodonta Cardot, Rev. Bryol. 36: 76. 1909.

Other use: *Hyophilopsis stomatodonta* (Cardot) H. Crum, 1965, *Neohyophila sprengelii* var. *stomatodonta* (Cardot) Zander, 1983, *Neohyophila stomatodonta* (Cardot) H. Crum, 1965 [1966].

Hyophila, continued.
H. streimannii Norris & T. Koponen, Acta Bot. Fenn. 137: 111. f. 9: f-k. 1989.
Type: Papua New Guinea. Central: between head of Goldie River and Owers Corner, 40 km ENE of Port Moresby, 500 m, *Streimann & Naoni 14805*. Holotype: H; isotypes: CBG, LAE. Paratypes cited.
H. subangustifolia Thériot, Smithsonian Misc. Collect. 85(4): 14. f. 7: 6-13. 1931.
Other use: *Weissia subangustifolia* (Thériot) Zander, 1983.

***Hyophilopsis** H. Crum, Bryologist 68: 69. 1965.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Hyophilopsis* Cardot & Dixon, 1911.
Correct name: *Neohyophila* H. Crum, 1965 [1966].
Type: *Barbula sprengelii* Schwägrichen, *H. sprengelii* (Schwägrichen) H. Crum, holotype.
Original placement: Pottiaceae.
H. lingulata (Cardot) H. Crum, Bryologist 68: 71. 1965.
Basionym: *Hyophila lingulata* Cardot, 1910.
H. spathulifolia (E. B. Bartram) H. Crum, Bryologist 68: 70. 1965.
Basionym: *Desmatodon spathulifolius* E. B. Bartram, 1947.
H. sprengelii (Schwägrichen) H. Crum, Bryologist 68: 69. 1965.
Basionym: *Barbula sprengelii* Schwägrichen, 1823.
H. stomatodonta (Cardot) H. Crum, Bryologist 68: 70. 1965.
Basionym: *Hyophila stomatodonta* Cardot, 1909.

Hypnella (C. Müller) Jaeger, 1877.
H. guineensis Brotherus & Paris, Rev. Bryol. 35: 3. 1908.
Other use: *Glossadelphus guineensis* (Brotherus & Paris) Crosby, B. H. Allen & Magill, 1985.
H. jamesii H. Robinson, Bryologist 68: 333. f. 10-12. 1965.
Type: Costa Rica. Monteverde, *James 32*. Holotype: US; isotype: herb. Reed.
H. semiscabra Renauld & Cardot, Bull. Soc. Roy. Bot. Belgique 35(1): 318. 1896 [1897].
Other use: *Glossadelphus semiscabrus* (Renauld & Cardot) Crosby, B. H. Allen & Magill, 1985.
H. viridis Renauld & Cardot, Bull. Soc. Roy. Bot. Belgique 35(1): 317. 1896 [1897].
Other use: *Glossadelphus viridis* (Renauld & Cardot) Crosby, B. H. Allen & Magill, 1985.

+**Hypnites** Ettingshausen, 1855.
+*H. arkansanus* Wittlake, Amer. Midl. Naturalist 80: 546. f. 3-7. 1968, "*arkansana*."
Type: U.S.A. Arkansas: Greene Co., 15 miles E of Hooker, N portion of Crowley's Ridge, upper Wilcox formation (Lower Eocene), *Arkansas State Univ. H670445B*. Holotype: STAR.

Hypnites, continued.

+*H. arnoldianus* (Steere) N. G. Miller in R. J. Taylor & Leviton, Mosses N. Amer. 17. 1980.

Basionym: *Palaeohypnum arnoldianum* Steere, 1946.

+*H. beckeri* (Steere) N. G. Miller in R. J. Taylor & Leviton, Mosses N. Amer. 17. 1980.

Basionym: *Palaeohypnum beckeri* Steere, 1972.

+*H. brittoniae* (Steere) N. G. Miller in R. J. Taylor & Leviton, Mosses N. Amer. 17. 1980.

Basionym: *Palaeohypnum brittoniae* Steere, 1946.

+*H. brownii* (W. C. G. Kirchner) N. G. Miller in R. J. Taylor & Leviton, Mosses N. Amer. 17. 1980.

Basionym: *Hypnum brownii* W. C. G. Kirchner, 1898.

+*H. jovet-astiae* (Kuc) N. G. Miller in R. J. Taylor & Leviton, Mosses N. Amer. 18. 1980.

Basionym: *Palaeohypnum jovet-astiae* Kuc, 1974.

+*H. knowltonii* (Britton) N. G. Miller in R. J. Taylor & Leviton, Mosses N. Amer. 18. 1980.

Basionym: *Rhynchostegium knowltonii* Britton, 1899.

+*H. patens* (Britton in Knowlton) N. G. Miller in R. J. Taylor & Leviton, Mosses N. Amer. 18. 1980.

Basionym: *Archaeomnium patens* Britton in Knowlton, 1926.

+*H. steerei* (Kuc) N. G. Miller in R. J. Taylor & Leviton, Mosses N. Amer. 18. 1980.

Basionym: *Palaeohypnum steerei* Kuc, 1974.

Hypnobartlettia Ochyra, Lindbergia 11: 3. 1985.

Type: *H. fontana* Ochyra, holotype.

Original placement: Hypnobartlettiaceae.

H. fontana Ochyra, Lindbergia 11: 3. f. 1-2. 1985.

Type: New Zealand. South Island: N. W. Nelson District, Waikaropupu Limestone Springs Reserve, 20 m, *Bartlett 26045*. Holotype: WELY; isotypes: ALTA, B, BM, BP, BR, C, CANM, COLO, CHR, F, FH, FLAS, G, GRO, H, KRAM-B, L, M, MEL, MICH, MO, NICH, NY, PC, PRE, S, U, US.

Hypnodendron (C. Müller) Lindberg ex Mitten in Seemann, 1873.

H. sect. *Comosa* (Hampe) Touw, Blumea 19: 305. 1971.

Basionym: *Hypnum* sect. *Comosa* Hampe, 1871.

H. sect. *Leiocarpos* (Dixon) Touw, Blumea 19: 253. 1971.

Basionym: *Hypnodendron* subgen. *Leiocarpos* Dixon, 1922.

H. subgen. *Leiocarpos* Dixon, J. Linn. Soc., Bot. 45: 495. 1922.

Other use: *Hypnodendron* sect. *Leiocarpos* (Dixon) Touw, 1971.

H. sect. *Lindbergiodendron* Touw, Blumea 19: 268. 1971.

Type: *Hypnum arcuatum* Hedwig, *Hypnodendron arcuatum* (Hedwig) Lindberg ex Mitten, holotype.

Hypnodendron, continued.

H. sect. *Mniodendropsis* Touw, Blumea 19: 297. 1971.
Type: *H. milnei* Mitten, holotype.

H. sect. *Phoenicobryum* (Lindberg ex Brotherus) Touw, Blumea 19: 232. 1971.
Basionym: *Hypnodendron* subgen. *Phoenicobryum* Lindberg ex Brotherus, 1909.

H. subgen. *Phoenicobryum* Lindberg ex Brotherus, Nat. Pflanzenfam. 1(3): 1169. 1909.
Other use: *Hypnodendron* sect. *Phoenicobryum* (Lindberg ex Brotherus) Touw, 1971.

H. sect. *Pseudomniodendron* Touw, Blumea 19: 335. 1971.
Type: *Hypnum fuscomucronatum* C. Müller, *H. fuscomucronatum* (C. Müller) Jaeger & Sauerbeck, holotype.

H. sect. *Sciadocladus* (Lindberg ex Kindberg) Touw, Blumea 19: 260. 1971.
Basionym: *Sciadocladus* Lindberg ex Kindberg, 1909.

H. sect. *Tristichophyllum* Touw, Blumea 19: 293. 1971.
Type: *H. diversifolium* Brotherus & Geheeb, holotype.

H. auricomum Brotherus & Geheeb, 1898.

H. auricomum subsp. *celebense* (Dixon) Touw, Blumea 19: 259. 1971, "*celebensis*."
Basionym: *Sciadocladus celebensis* Dixon, 1934.

H. auricomum subsp. *opacum* (Fleischer) Touw, Blumea 19: 259. 1971.
Basionym: *Hypnodendron opacum* Fleischer, 1923.

H. auricomum subsp. *sumatranum* (Baumgartner in J. Fröhlich) Akiyama, Bryologist 92: 200. 1989.
Basionym: *Hypnodendron sumatranum* Baumgartner in J. Fröhlich, 1953.

H. brassii E. B. Bartram, Contr. U.S. Natl. Herb. 37: 52. 1965.
Type: Papua New Guinea. Arau, 1400 m, *Brass 32042*. Holotype: US.

H. caducifolium Herzog, Hedwigia 61: 292. 1919.
Other use: *Hypnodendron reinwardtii* subsp. *caducifolium* (Herzog) Touw, 1971.

H. camptotheca (Duby ex Bescherelle ex Paris) Touw, Blumea 19: 307. 1971.
Basionym: *Mniodendron camptotheca* Duby ex Bescherelle ex Paris, 1905.

H. chalmersii Mitten, Proc. Linn. Soc. New South Wales 7: 103. 1882.
Other use: *Hypnodendron fuscomucronatum* subsp. *chalmersii* (Mitten) Touw, 1971.

H. comatulum (Geheeb ex Brotherus & Watts) Touw, Blumea 19: 307. 1971.
Basionym: *Mniodendron comatulum* Geheeb ex Brotherus & Watts, 1918.

H. comatum (C. Müller) Touw, Blumea 19: 313. 1971.
Basionym: *Hypnum comatum* C. Müller, 1851.

H. comosum (Labillardière) Mitten, 1882.

H. comosum var. *sieberi* (C. Müller) Touw, Blumea 19: 319. 1971.
Basionym: *Hypnum sieberi* C. Müller, 1851.

H. dendroides (Bridel) Touw, Blumea 19: 320. 1971.
Basionym: *Bryum dendroides* Bridel, 1803.

Hypnodendron, continued.
H. fuscomucronatum (C. Müller) Jaeger & Sauerbeck, 1880.
H. fuscomucronatum subsp. *chalmersii* (Mitten) Touw, Blumea 19: 337. 1971.
Basionym: *Hypnodendron chalmersii* Mitten, 1882.
H. menziesii (W. J. Hooker) Paris, 1895.
H. menziesii subsp. *splendidum* (Bescherelle) Touw, Blumea 19: 265. 1971.
Basionym: *Hypnodendron splendidum* Bescherelle, 1873.
H. milnei Mitten in Seemann, 1873.
H. milnei subsp. *korthalsii* (Bosch & Sande Lacoste ex Paris) Touw, Blumea 19: 302. 1971.
Basionym: *Mniodendron korthalsii* Bosch & Sande Lacoste ex Paris, 1905.
H. milnei subsp. *parvum* (C. Müller) Touw, Blumea 19: 301. 1971.
Basionym: *Mniodendron parvum* C. Müller, 1902.
H. opacum Fleischer, Musci Buitenzorg 4: 1610. 1923.
Other use: *Hypnodendron auricomum* subsp. *opacum* (Fleischer) Touw, 1971.
H. reinwardtii (Schwägrichen) Lindberg ex Jaeger & Sauerbeck, 1880.
H. reinwardtii subsp. *caducifolium* (Herzog) Touw, Blumea 19: 245. 1971.
Basionym: *Hypnodendron caducifolium* Herzog, 1919.
H. rigidum Mitten in Seemann, Fl. Vit. 401. 1873.
Other use: *Pterobryella rigida* (Mitten in Seemann) Touw, 1971.
H. spininervium (W. J. Hooker) Jaeger & Sauerbeck, 1880.
H. spininervium subsp. *archeri* (Mitten in W. J. Hooker & Wilson) Touw, Blumea 19: 277. 1971.
Basionym: *Isothecium archeri* Mitten in W. J. Hooker & Wilson, 1859.
H. splendidum Bescherelle, Ann. Sci. Nat. Bot., ser. 5, 18: 245. 1873.
Other use: *Hypnodendron menziesii* subsp. *splendidum* (Bescherelle) Touw, 1971.
H. subspininervium (C. Müller) Jaeger, 1880.
H. subspininervium subsp. *arborescens* (Mitten) Touw, Blumea 19: 237. 1971.
Basionym: *Trachyloma arborescens* Mitten, 1859.
H. sumatranum Baumgartner in J. Fröhlich, Ann. Naturhist. Mus. Wien 59: 84. 1953.
Other use: *Hypnodendron auricomum* subsp. *sumatranum* (Baumgartner in J. Fröhlich) Akiyama, 1989.
H. tahiticum (Bescherelle) Touw, Blumea 19: 332. 1971.
Basionym: *Mniodendron tahiticum* Bescherelle, 1901.
H. vitiense Mitten in Seemann, 1873.
H. vitiense subsp. *australe* Touw, Blumea 19: 285. f. 23: c-e, k-l, p, r, t. 1971.
Type: Australia. New South Wales: slopes of Mt. Budawang, near Mongarlowe, *Adams 1425*. Holotype: L; isotypes: B, BM, CANB, CHR, FH, MEL, NSW, P, TNS, US.

Hypnodontopsis Iwatsuki & Noguchi, 1957.
H. subgen. *Pseudoreas* H. Robinson, Bryologist 67: 449. f. 58. 1964.
Type: *Oreas mexicana* Thériot, *H. mexicana* (Thériot) H. Robinson, holotype.

Hypnodontopsis, continued.
H. mexicana (Thériot) H. Robinson, Bryologist 67: 449. 1964.
Basionym: *Oreas mexicana* Thériot, 1928.

Hypnofabronia Dixon, 1929.
H. marginata Dixon in Dixon & H. A. Wager, Trans. Roy. Soc. South Africa 18: 258. f. 10. 1930 [1929].
Other use: *Anacamptodon marginatus* (Dixon in Dixon & H. A. Wager) Buck, 1980.

Hypnum Hedwig, 1801, conserved name.
H. sect. *Bambergeri* Ando, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 14: 168. 1973.
Type: *H. bambergeri* W. P. Schimper, holotype.
H. sect. *Campyliadelphus* Kindberg, Bih. Kongl. Svenksa Vetensk.-Akad. Handl. 7(9): 16. 1883.
Other use: *Campyliadelphus* (Kindberg) R. S. Chopra, 1975.
H. subsect. *Circinale* Ando, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 16: 23. 1976 [1977].
Type: *H. circinale* W. J. Hooker, holotype.
Original placement: sect. *Hypnum*.
H. sect. *Comosa* Hampe, Verh. K.K. Zool.-Bot. Ges. Wien 21: 395. 1871.
Other use: *Hypnodendron* sect. *Comosa* (Hampe) Touw, 1971.
H. sect. *Curvifolia* Ando, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 14: 170. 1973.
Type: *H. curvifolium* Hedwig, holotype.
H. sect. *Fertilia* Ando, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 14: 170. 1973.
Type: *H. fertile* Sendtner, holotype.
H. sect. *Longicolla* Ando, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 14: 171. 1973, "*Longicola*."
Type: *Ectropothecium longicollum* Brotherus & Geheeb, *H. longicollum* (Brotherus & Geheeb) Ando, invalid combination, holotype.
H. sect. *Oldhamii* Ando, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 14: 171. 1973.
Type: *Stereodon oldhamii* Mitten, *H. oldhamii* (Mitten) Jaeger & Sauerbeck, holotype.
H. sect. *Polyptera* Ando, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 14: 172. 1973.
Type: *Ectropothecium polypterum* Mitten, *H. polypterum* (Mitten) Brotherus, holotype.
H. sect. *Pseudostereodon* (Brotherus) Ando, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 14: 172. 1973.
Basionym: *Ctenidium* subgen. *Pseudostereodon* Brotherus, 1908.
H. acestrostegium Sullivant, Proc. Amer. Acad. Arts 5: 287. 1861.
Other use: *Rhaphidostichum acestrostegium* (Sullivant) Buck, 1989.

Hypnum, continued.

H. acuminatum (Hedwig) Palisot de Beauvois, 1805.

H. acuminatum var. *filiforme* Britton, Mem. Torrey Bot. Club 4: 185. 1894.
Other use: *Chamberlainia acuminata* var. *filiformis* (Britton) Wijk & Margadant, 1968.

H. aduncum Hedwig, 1801.

H. aduncum var. *clavatum* Ruthe ex Warnstorf, Verh. Bot. Vereins Prov. Brandenburg 27: 77. 1885.
Other use: *Drepanocladus aduncus* var. *clavatus* (Ruthe ex Warnstorf) Wijk & Margadant, 1965.

H. aduncum var. *pseudofluitans* Sanio, Bot. Centralbl. 1(Beibl. 2): 8. 1880.
Other use: *Drepanocladus polycarpus* var. *pseudofluitans* (Sanio) Nyholm, 1969.

H. aduncum var. *venturii* Sanio, Bih. Kongl. Svenksa Vetensk.-Akad. Handl. 10(1): 12. 1885.
Other use: *Drepanocladus aduncus* var. *venturii* (Sanio) Wijk & Margadant, 1965.

H. aeneum Mitten, J. Proc. Linn. Soc., Bot. 8: 31. f. 5. 1864.
Other use: *Homalothecium aeneum* (Mitten) E. Lawton, 1965.

**H. africanum* (Potier de la Varde) Ochyra in Ochyra & Pócs, Acta Bot. Acad. Sci. Hung. 28: 386. 1982.
*illegitimate, later homonym (Article 64.1).
Basionym: *Breidleria africana* Potier de la Varde, 1940.
Earlier name: *Hypnum africanum* Welwitsch & Duby, 1871.
Correct name: *Hypnum bizotii* Ochyra, 1984.

H. albicans Hedwig, Sp. Musc. Frond. 251. 1801.
Other use: *Chamberlainia albicans* (Hedwig) H. Robinson, 1962 [1963].

H. alleghaniense C. Müller, Syn. Musc. Frond. 2: 502. 1851.
Other use: *Arbuscula alleghaniensis* (C. Müller) H. Crum, Steere & L. E. Anderson, 1964.

H. alopecuroides Lamarck ex Dubois, Méth. Éprouv. 228. 1803.
Other use: *Isothecium alopecuroides* (Lamarck ex Dubois) Isoviita, 1981.

H. alopecurum Hedwig, Sp. Musc. Frond. 267. 1801.
Other use: *Arbuscula alopecura* (Hedwig) H. Crum, Steere & L. E. Anderson, 1964, *Thamnobryum alopecurum* (Hedwig) Nieuwland ex Gangulee, 1976.

H. alopecurum var. *protensum* Turner, Muscol. Hibern. Spic. 163. 1804.
Other use: *Thamnobryum alopecurum* fo. *protensum* (Turner) Düll, 1980.

H. anceps Bosch & Sande Lacoste, Bryol. Jav. 2: 161. pl. 260. 1867.
Other use: *Entodontopsis anceps* (Bosch & Sande Lacoste) Buck & Ireland, 1985.

H. andoi A. J. E. Smith, J. Bryol. 11: 606. 1981 [1982].
Replaced name: *Hypnum cupressiforme* var. *mammillatum* Bridel, 1801.

H. andrieuxii C. Müller, Syn. Musc. Frond. 2: 348. 1851.
Other use: *Rozea chrysea* fo. *andrieuxii* (C. Müller) Buck & H. Crum, 1976 [1977].

Hypnum, continued.

H. angustifolium Hampe & C. Müller, Bot. Zeitung (Berlin) 13: 788. 1855.
Other use: *Bryohaplocladium angustifolium* (Hampe & C. Müller) R. Watanabe & Iwatsuki, 1981.

H. aomoriense Paris, Rev. Bryol. 31: 94. 1904.
Other use: *Sasaokaea aomoriensis* (Paris) Kanda, 1976 [1977].

**H. arcuatum* Lindberg, 1862.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Hypnum arcuatum* Hedwig, 1801.

H. arcuatum var. *flaccidum* De Notaris, Atti R. Univ. Genova 1: 181. 1869.
Other use: *Hypnum lindbergii* var. *flaccidum* (De Notaris) Wijk & Margadant, 1968.

H. arcuatum var. *fluitans* De Notaris, Atti R. Univ. Genova 1: 181. 1869.
Other use: *Hypnum lindbergii* var. *fluitans* (De Notaris) Wijk & Margadant, 1968.

H. arenarium Lesquereux, Trans. Amer. Philos. Soc., n.s., 13: 13. 1865.
Other use: *Homalothecium arenarium* (Lesquereux) E. Lawton, 1965.

H. arquifolium Bosch & Sande Lacoste, Bryol. Jav. 2: 186. pl. 284. 1867.
Other use: *Pseudotaxiphyllum arquifolium* (Bosch & Sande Lacoste) Iwatsuki, 1987.

H. auriculatum Montagne, Ann. Sci. Nat. Bot., ser. 2, 19: 240. 1843.
Other use: *Calliergon auriculatum* (Montagne) Margadant, 1972.

H. austrostramineum C. Müller in Neumayer, Int. Polarforsch., Deutsch. Exped. 2: 319. 1890.
Other use: *Brachythecium austrostramineum* (C. Müller in Neumayer) Ochyra in Ochyra, Vitt & D. G. Horton, 1986.

H. austrostramineum var. *gracillimum* C. Müller in Neumayer, Int. Polarforsch., Deutsch. Exped. 2: 319. 1890.
Other use: *Calliergidium austrostramineum* var. *gracillimum* (C. Müller in Neumayer) Wijk & Margadant, 1965.

H. austrostramineum var. *minus* Cardot, Rev. Bryol. 33: 35. 1906.
Other use: *Calliergidium austrostramineum* var. *minus* (Cardot) Wijk & Margadant, 1965.

H. austrostramineum var. *subfluitans* C. Müller in Neumayer, Int. Polarforsch., Deutsch. Exped. 2: 320. 1890.
Other use: *Calliergidium austrostramineum* var. *subfluitans* (C. Müller in Neumayer) Wijk & Margadant, 1965.

H. berthelotianum Montagne in Webb & Berthelot, Hist. Nat. Iles Canaries 3(2.4): 4. pl. 1: f. 2. 1840.
Other use: *Allorgea berthelotiana* (Montagne in Webb & Berthelot) Ando, 1973 [1974], *Andoa berthelotiana* (Montagne in Webb & Berthelot) Ochyra, 1982.

H. beskeanum C. Müller, Bot. Zeitung (Berlin) 15: 384. 1857.
Other use: *Steerecleus beskeanus* (C. Müller) H. Robinson, 1987.

H. bifarium W. J. Hooker, Musci Exot. 1: 57. 1818.
Other use: *Pyrrhobryum bifarium* (W. J. Hooker) Manuel, 1980.

Hypnum, continued.

H. bizotii Ochyra, J. Bryol. 13: 294. 1984.
Replaced name: *Hypnum africanum* (Potier de la Varde) Ochyra in Ochyra & Pócs, 1982.
Blocking name: *Hypnum africanum* Welwitsch & Duby, 1871.

H. boschii Dozy & Molkenboer, Ann. Sci. Nat. Bot., ser. 3, 2: 306. 1844.
Other use: *Rhaphidostichum boschii* (Dozy & Molkenboer) Seki, 1968.

H. brandegei Austin, Bot. Gaz. (Crawfordsville) 3: 31. 1878.
Other use: *Brachythecium brandegei* (Austin) H. Robinson, 1962 [1963].

H. brandisii C. Müller, Flora 61: 86. 1878, "*brandisi*."
Other use: *Abietinella brandisii* (C. Müller) Brotherus in Bruehl, 1931.

H. brewerianum Lesquereux, 1865.

H. brewerianum var. *lutescens* Lesquereux & T. P. James, Man. Mosses N. America 349. 1884.
Other use: *Isothecium cristatum* var. *lutescens* (Lesquereux & T. P. James) H. Crum, Steere & L. E. Anderson, 1964.

H. bridelianum H. Crum, Steere & L. E. Anderson, Bryologist 68: 433. 1965 [1966].
Replaced name: *Hypnum fastigiatum* Bridel, 1827.
Blocking name: *Hypnum fastigiatum* Wibel, 1805.

H. bridelianum var. *mitodes* (I. Hagen) Nyholm, Ill. Moss Fl. Fennoscandia. II. Musci 776. 1969.
Basionym: *Hypnum mitodes* I. Hagen, 1900 [1901].

H. bridelianum var. *recurvatum* (Lindberg & H. Arnell) Nyholm, Ill. Moss Fl. Fennoscandia. II. Musci 776. 1969.
Basionym: *Stereodon recurvatus* Lindberg & H. Arnell, 1890.

H. bridelianum var. *sauteri* (W. P. Schimper in Sauter) Nyholm, Ill. Moss Fl. Fennoscandia. II. Musci 776. 1969.
Basionym: *Hypnum sauteri* W. P. Schimper in Sauter, 1850.

H. brotherusii Tixier, Rev. Bryol. Lichénol. 34: 171. f. 27. 1966.
Type: Vietnam. Route de Vinh-Yen a Hanoi, *Demange*, 1925. Herbarium not specified by author.

+*H. brownii* W. C. G. Kirchner, Trans. Acad. Sci. St. Louis 8: 178. pl. 12: f. 4-4a. 1898.
Other use: *Archaeomnium brownii* (W. C. G. Kirchner) LaMotte, 1952, *Hypnites brownii* (W. C. G. Kirchner) N. G. Miller in R. J. Taylor & Leviton, 1980.

H. callichrous Bridel, 1827.

**H. callichrous* var. *japonicum* Ando, J. Hattori Bot. Lab. 35: 70. 1972.
*invalid, no Latin description (Article 36.1).

H. calodictyon C. Müller, 1874.

H. calodictyon var. *glaucum* C. Müller, J. Mus. Godeffroy 3(6): 81. 1874, "*glauca*."
Other use: *Vesicularia inflectens* var. *glauca* (C. Müller) Schultze-Motel, 1974.

H. caloosiense Austin, Bot. Gaz. (Crawfordsville) 4: 161. 1879.
Other use: *Vesicularia caloosiensis* (Austin) H. Crum, 1971.

Hypnum, continued.

H. capillifolium Warnstorf, Bot. Zeitung (Berlin) 35: 78. 1877.
Other use: *Drepanocladus polycarpus* var. *capillifolius* (Warnstorf) Nyholm, 1969.

H. cavifolium Bridel, Bryol. Univ. 2: 556. 1827, "*cavifolius*."
Other use: *Plagiothecium cavifolium* (Bridel) Iwatsuki, 1970.

H. chrysophyllum Bridel, Muscol. Recent. 2(2): 84. pl. 2: f. 2. 1801.
Other use: *Campyliadelphus chrysophyllus* (Bridel) R. S. Chopra, 1975.

H. collinum Schleicher ex C. Müller, Syn. Musc. Frond. 2: 429. 1851.
Other use: *Chamberlainia collina* (Schleicher ex C. Müller) H. Robinson, 1962 [1963].

H. coloradense Austin, Bot. Gaz. (Crawfordsville) 2: 111. 1877.
Other use: *Brachythecium cirrosum* var. *coloradense* (Austin) Wijk & Margadant, 1968.

*+*H. coloradense* R. W. Brown, U.S. Geol. Surv. Prof. Pap. 375: 41. pl. 5: f. 7. 1962.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Hypnum coloradense* Austin, 1877.
Other use: *Muscites coloradensis* N. G. Miller in R. J. Taylor & Leviton, 1980.

H. comatum C. Müller, Bot. Zeitung (Berlin) 9: 566. 1851.
Other use: *Hypnodendron comatum* (C. Müller) Touw, 1971.

H. commutatum Hedwig, Sp. Musc. Frond. 284. 1801.
Other use: *Palustriella commutata* (Hedwig) Ochyra, 1989.

H. commutatum var. *diastrophyllum* Bridel, Bryol. Univ. 2: 525. 1827.
Other use: *Palustriella commutata* var. *diastrophylla* (Bridel) Ochyra, 1989.

H. commutatum var. *fluctuans* W. P. Schimper in B.S.G., Bryol. Eur. fasc. 57-61. Monogr. 39. pl. 26: τ (6: 115. pl. 608: τ). 1854.
Other use: *Palustriella commutata* var. *fluctuans* (W. P. Schimper in B.S.G.) Ochyra, 1989.

H. commutatum var. *minus* Lesquereux, Mém. Soc. Sci. Nat. Neuchatel 3(3): 49. 1846.
Other use: *Palustriella commutata* var. *minor* (Lesquereux) Ochyra, 1989.

H. commutatum var. *sulcatum* Lindberg, Öfvers. Förh. Kongl. Svenska Vetensk.-Akad. 23: 540. 1866 [1867].
Replaced name: *Hypnum sulcatum* W. P. Schimper, 1860.
Blocking name: *Hypnum sulcatum* (W. J. Hooker) Arnott, 1827.
Other use: *Palustriella commutata* var. *sulcata* (Lindberg) Ochyra, 1989.
Note: new name, based on adoption of earlier epithet (Article 72.Note 1).

H. compactum C. Müller, Syn. Musc. Frond. 2: 408. 1851.
Other use: *Conardia compacta* (C. Müller) H. Robinson, 1976.

H. confervoides Bridel, Muscol. Recent. Suppl. 2: 153. 1812.
Other use: *Platydictya confervoides* (Bridel) H. Crum, 1964.

H. cossonii W. P. Schimper, Musci Eur. Nov. 3-4 (Mon.): 5. pl. 5. 1866, "*cossoni*."
Other use: *Scorpidium cossonii* (W. P. Schimper) Hedenäs, 1989.

Hypnum, continued.

H. cucullatum Mitten, Kew J. Bot. 8: 264. 1856.
Other use: *Eurhynchium cucullatum* (Mitten) Steere & G. A. M. Scott, 1973 [1974].

H. cuculligerum Sande Lacoste, Bryol. Jav. 2: 218. pl. 319. 1870.
Other use: *Clastobryum cuculligerum* (Sande Lacoste) Tixier, 1969.

H. cultelliforme Sullivant, Proc. Amer. Acad. Arts 5: 289. 1861.
Other use: *Eulacophyllum cultelliforme* (Sullivant) Buck & Ireland, 1985.

H. cupressiforme Hedwig, 1801.

H. cupressiforme var. *ericetorum* W. P. Schimper in B.S.G., Bryol. Eur. fasc. 57-61. Monogr. 100. pl. 15: τ (6: 101. pl. 595: τ). 1854.
Other use: *Hypnum jutlandicum* Holmen & Warncke, 1969.

H. cupressiforme var. *mammillatum* Bridel, Muscol. Recent. 2(2): 137. 1801.
Other use: *Hypnum andoi* A. J. E. Smith, 1981 [1982].

H. cupressiforme var. *mossmanianum* (C. Müller) Ando in Ando & Matteri, Lindbergia 8: 62. 1982.
Basionym: *Hypnum mossmanianum* C. Müller, 1851.

H. cupressiforme var. *tectorum* Bridel, Bryol. Univ. 2: 612. 1827.
Other use: *Hypnum lacunosum* var. *tectorum* (Bridel) Frahm, 1976.

H. curvicaule Juratzka, Verh. Zool.-Bot. Ges. Wien 14: 103. 1864.
Other use: *Callialaria curvicaulis* (Juratzka) Ochyra, 1989.

H. cuspidatum Hedwig, 1801.

H. cuspidatum var. *caespitosum* H. Whitehouse in Dixon, Stud. Handb. Brit. Mosses 491. 1896.
Other use: *Calliergon cuspidatum* var. *caespitosum* (H. Whitehouse in Dixon) Karczmarz, 1971.

H. cuspidiferum Mitten, J. Proc. Linn. Soc., Bot., Suppl., 1: 78. 1859.
Other use: *Brachythecium buchananii* var. *cuspidiferum* (Mitten) Gangulee & Vohra in Gangulee, 1978.

H. cyparissoides Hornschuch, Fl. Bras. 1(2): 88. 1840.
Other use: *Trichosteleum cyparissoides* (Hornschuch) H. Robinson, 1967.

H. darjeelingense Ando, Hikobia 6: 41. 1971.
Replaced name: *Hypnum hamulosum* var. *sikkimense* Renauld & Cardot, 1895 [1896].
Blocking name: *Hypnum sikkimense* Ando, 1968.

H. decipiens G. F. Hoffmann ex Bridel, 1801.

H. decipiens var. *napaeiforme* Schiffner, Oesterr. Bot. Z. 58: 348. 1908.
Other use: *Palustriella decipiens* var. *napaeiformis* (Schiffner) Ochyra, 1989.

H. decurrens Sullivant, Proc. Amer. Acad. Arts 3: 77. 1854.
Other use: *Ectropothecium decurrens* (Sullivant) Nishimura, 1985.

H. deplanatulum Cardot, Rev. Bryol. 37: 56. 1910.
Other use: *Pylaisiadelpha deplanatula* (Cardot) Buck, 1984.

H. diminutivum Hampe, Linnaea 20: 86. 1847.
Other use: *Chryso-hypnum diminutivum* (Hampe) Buck, 1984.

Hypnum, continued.

**H. distans* Lindberg, 1879.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Hypnum distans* Bridel, 1812.

H. dovrense Kindberg, Mém. Soc. Sci. Nat. Cherbourg 24: 332. 1884.
Other use: *Hypnum lindbergii* var. *dovrense* (Kindberg) Wijk & Margadant, 1965.

H. dregei C. Müller, Syn. Musc. Frond. 2: 311. 1851.
Other use: *Sematophyllum dregei* (C. Müller) Magill in Magill & Schelpe, 1979.

H. elegans Bridel, Muscol. Recent. 2(2): 189. 1801.
Other use: *Pseudotaxiphyllum elegans* (Bridel) Iwatsuki, 1987.

H. emodi-fertile Brotherus ex Ando, Hikobia 6: 208. f. 3. 1973.
Type: India. NW Himalaya, Tihri Garhwal, Kidarkauta, 10,000 feet (3048 m), *Bahadru*, 1904 (Bryoth. Levier 6327). Holotype: H-Brotherus.

H. euchloron Bruch ex C. Müller, Syn. Musc. Frond. 2: 464. 1851.
Other use: *Homalothecium euchloron* (Bruch ex C. Müller) R. S. Chopra, 1977.

H. eximium Sullivant & Lesquereux, Proc. Amer. Acad. Arts 4: 281. 1859.
Other use: *Taxiphyllum eximium* (Sullivant & Lesquereux) Iwatsuki, 1963.

H. extenuatum Bridel, Muscol. Recent. Suppl. 4: 172. 1819 [1818].
Other use: *Wijkia extenuata* (Bridel) H. Crum, 1971.

H. falcatum Bridel, Muscol. Recent. 2(2): 63. pl. 1: f. 6. 1801.
Other use: *Palustriella commutata* var. *falcata* (Bridel) Ochyra, 1989.

H. falcatum var. *virescens* W. P. Schimper, Syn. Musc. Eur. (ed. 2) 2: 743. 1876.
Other use: *Palustriella commutata* var. *virescens* (W. P. Schimper) Ochyra, 1989.

**H. fastigiatum* Bridel, Bryol. Univ. 2: 620. 1827.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Hypnum fastigiatum* Wibel, 1805.
Correct name: *Hypnum bridelianum* H. Crum, Steere & L. E. Anderson, 1965 [1966].

H. fastigiatum var. *strictum* Meylan, Bull. Soc. Vaud. Sci. Nat., ser. 5, 41: 164. 1905.
Other use: *Hypnum recurvatum* fo. *strictum* (Meylan) Ando, 1973.

H. flaccidum Sullivant & Lesquereux, Proc. Amer. Acad. Arts 4: 280. 1859.
Other use: *Vesicularia flaccida* (Sullivant & Lesquereux) Iwatsuki, 1963.

H. fluitans Hedwig, 1801.

**H. fluitans* var. *falcatum* W. P. Schimper in B.S.G., Bryol. Eur. fasc. 57-61. Monogr. 34. 22: *β* (6: 110. f. 602: *β*). 1854.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Hypnum fluitans* var. *falcatum* (Bridel) C. J. Hartman, 1838.
Other use: *Drepanocladus fluitans* var. *uncatus* H. Crum, Steere & L. E. Anderson, 1965 [1966].

Hypnum, continued.

H. fluitans var. *procerum* Renauld & H. Arnell in Husnot, Muscol. Gall. 383. pl. 110: f. 3-4. 1894.

Other use: *Warnstorfia procera* (Renauld & H. Arnell in Husnot) Tuomikoski, 1973.

H. fluitans var. *purpurascens* W. P. Schimper, Syn. Musc. Eur. 609. 1860.

Other use: *Warnstorfia exannulata* var. *purpurascens* (W. P. Schimper) Tuomikoski & T. Koponen, 1979.

H. fuciforme Bridel, Muscol. Recent. Suppl. 2: 135. 1812.

Other use: *Pinnatella fuciformis* (Bridel) Touw, 1976.

**H. fulvum* W. J. Hooker & Wilson in Drummond, Musci Amer., Brit. N. Amer. 2: 110. 1841.

*illegitimate, later homonym (Article 64.1).

Earlier name: *Hypnum fulvum* Bridel, 1801.

Other use: *Isopterygium drummondii* H. Crum, Steere & L. E. Anderson, 1965 [1966].

H. glaucoviride Mitten in J. D. Hooker, Handb. N. Zeal. Fl. 473. 1867.

Other use: *Echinodium umbrosum* var. *glaucoviride* (Mitten in J. D. Hooker) Churchill, 1986.

H. guadalupense Sprengel in Bridel, Muscol. Recent. Suppl. 2: 96. 1812.

Other use: *Trachyxiphium guadalupense* (Sprengel in Bridel) Buck, 1987.

H. gueinzii Hampe, Icon. Musc. 12. 1844.

Other use: *Sematophyllum gueinzii* (Hampe) Magill in Magill & Schelpe, 1979.

H. haldanianum Greville, Ann. Lyceum Nat. Hist. New York 1: 275. f. 23. 1825.

Other use: *Callicladium haldanianum* (Greville) H. Crum, 1971.

H. hamulosum W. P. Schimper in B.S.G., 1854.

H. hamulosum var. *sikkimense* Renauld & Cardot, Bull. Soc. Roy. Bot. Belgique 34(2): 78. 1895 [1896].

Other use: *Hypnum darjeelingense* Ando, 1971.

H. henonii Duby, Flora 60: 93. 1877 [Feb], "*henoni*."

Other use: *Pylaisiadelpha henonii* (Duby) Buck, 1984.

H. heufleri Juratzka, 1861 [Dec].

H. heufleri var. *pumilum* Husnot, Muscol. Gall. 402. pl. 116: f. 6. 1894.

Other use: *Hypnum revolutum* fo. *pumilum* (Husnot) Ando, 1973.

H. hillianum Hampe, Linnaea 40: 322. 1876.

Other use: *Vesicularia hilliana* (Hampe) B. H. Allen, 1987.

H. humile Palisot de Beauvois, Prodr. Aethéogam. 65. 1805.

Other use: *Amblystegium humile* (Palisot de Beauvois) Crundwell, 1981 [1982], *Leptodictyum humile* (Palisot de Beauvois) H. Crum, 1983.

H. illecebrum Hedwig, Sp. Musc. Frond. 252. pl. 66: f. 1-2. 1801.

Other use: *Bryoandersonia illecebra* (Hedwig) H. Robinson, 1962 [1963].

H. imponens Hedwig, 1801.

H. imponens fo. *latiacuminatum* Ando, Hikobia 9: 476. f. 44: g-r. 1986.

Type: Canada. Newfoundland: Pushthrough, Fortune Bay and Hermitage, *Tuomikoski 1488*. Holotype: CANM.

Hypnum, continued.

H. inflatum J. D. Hooker & Wilson, Fl. Nov.-Zel. 2: 111. pl. 90: f. 5. 1854.
Other use: *Pulchrinodus inflatus* (J. D. Hooker & Wilson) B. H. Allen, 1987.

H. interruptum Bridel, Muscol. Recent. 2(2): 156. pl. 5: f. l. 1801.
Other use: *Hylocomium interruptum* (Bridel) Margadant, 1972.

H. japonicum Sullivant in Perry, Narr. Exped. China Japan 2: 330. 1857.
Other use: *Pseudoleskeopsis japonica* (Sullivant in Perry) Iwatsuki, 1966.

H. jungermannioides Bridel, Muscol. Recent. Suppl. 2: 255. 1812.
Other use: *Amblystegium jungermannioides* (Bridel) A. J. E. Smith, 1981 [1982], *Platydictya jungermannioides* (Bridel) H. Crum, 1964.

H. jutlandicum Holmen & Warncke, Bot. Tidsskr. 65: 179. 1969.
Replaced name: *Hypnum cupressiforme* var. *ericetorum* W. P. Schimper in B.S.G., 1854.
Blocking name: *Hypnum ericetorum* Bridel, 1812.

H. kuripanum Dozy & Molkenboer in Zollinger, Syst. Verz. 32. 1855.
Other use: *Thuidium kuripanum* (Dozy & Molkenboer in Zollinger) R. Watanabe, 1987.

H. lacunosum (Bridel) G. F. Hoffmann ex Bridel, 1819 [1818].

H. lacunosum var. *tectorum* (Bridel) Frahm, Herzogia 4: 163. 1976.
Basionym: *Hypnum cupressiforme* var. *tectorum* Bridel, 1827.

H. leibergii Britton, Bull. Torrey Bot. Club 16: 111. 1889.
Other use: *Arbuscula leibergii* (Britton) H. Crum, Steere & L. E. Anderson, 1964.

H. leptochaeton Schwägrichen, Sp. Musc. Frond., Suppl. 1 2: 296. 1816.
Other use: *Ectropothecium leptochaeton* (Schwägrichen) Buck, 1983.

H. lepturum Taylor, London J. Bot. 5: 64. 1846.
Other use: *Ischyrodon lepturus* (Taylor) Schelpe, 1970, *Juratzkaea leptura* (Taylor) W. A. Weber ex Buck, 1977.

H. lindbergii Mitten, J. Bot. 2: 123. 1864.
Replaced name: *Hypnum arcuatum* Lindberg, 1862.
Blocking name: *Hypnum arcuatum* Hedwig, 1801.
Other use: *Breidleria lindbergii* (Mitten) Schultze-Motel, 1963.

H. lindbergii var. *dovrense* (Kindberg) Wijk & Margadant, Taxon 14: 197. 1965.
Basionym: *Hypnum dovrense* Kindberg, 1884.

H. lindbergii var. *flaccidum* (De Notaris) Wijk & Margadant, Taxon 17: 467. 1968.
Basionym: *Hypnum arcuatum* var. *flaccidum* De Notaris, 1869.

H. lindbergii var. *fluitans* (De Notaris) Wijk & Margadant, Taxon 17: 467. 1968.
Basionym: *Hypnum arcuatum* var. *fluitans* De Notaris, 1869.

H. lindbergii var. *nivale* (Podpera) Wijk & Margadant, Taxon 17: 467. 1968, "*nivalis*."
Basionym: *Stereodon lindbergii* var. *nivalis* Podpera, 1911.

H. littorale Hampe, Nuovo Giorn. Bot. Ital. 4: 287. 1872.
Other use: *Glossadelphus littoralis* (Hampe) Wijk & Margadant, 1965, *Hampeohypnum littorale* (Hampe) Buck, 1987.

Hypnum, continued.

**H. longicollum* (Brotherus & Geheeb) Ando, J. Hattori Bot. Lab. 35: 71. 1972.
*invalid, basionym not cited (Article 33.2), not *H. longicollum* (Hedwig) Weber & D. Mohr (1803).

H. lorentzianum Molendo ex Lorentz, Moosstudien 119. 1864.
Other use: *Pylaisiadelpha lorentziana* (Molendo ex Lorentz) Buck, 1984.

H. lusitanicum W. P. Schimper, Syn. Musc. Eur. (ed. 2) 2: 781. 1876.
Other use: *Rhynchostegium lusitanicum* (W. P. Schimper) A. J. E. Smith, 1977.

H. lutescens Hedwig, Sp. Musc. Frond. 274. 1801.
Other use: *Homalothecium lutescens* (Hedwig) H. Robinson, 1962 [1963].

H. lycopodioides Bridel, 1812.

H. lycopodioides var. *lapponicum* Norrlin, Not. Sällsk. Fauna Fl. Fenn. Förh. 13: 293. 1873, "*lapponica*."
Other use: *Hamatocaulis lapponicus* (Norrlin) Hedenäs, 1989, *Scorpidium lapponicum* (Norrlin) Tuomikoski & T. Koponen, 1979.

H. mac-gregori (Brotherus & Geheeb) Ando, J. Hattori Bot. Lab. 35: 71. 1972.
*invalid, basionym not cited (Article 33.2).

H. macrostegium Sullivant & Lesquereux, Proc. Amer. Acad. Arts 4: 280. 1859.
Other use: *Palamocladium macrostegium* (Sullivant & Lesquereux) Iwatsuki & Takaki in Iwatsuki, 1966.

**H. maculosum* (Dixon) Ando, J. Hattori Bot. Lab. 35: 69. 1972.
*invalid, basionym not cited (Article 33.2).

**H. mammillatum* (Bridel) Loeske, Verh. Bot. Vereins Prov. Brandenburg 47: 342. 1915.
*invalid, not accepted by author (Article 34.1).
Correct name: *Hypnum andoi* A. J. E. Smith, 1981 [1982].
Note: not in Index Muscorum.

H. mercieri Paris, Rev. Bryol. 31: 95. 1904.
Other use: *Pylaisiadelpha mercieri* (Paris) Buck, 1984.

H. microphyllum Hedwig, Sp. Musc. Frond. 269. pl. 69: f. 1-4. 1801.
Other use: *Bryohaplocladium microphyllum* (Hedwig) R. Watanabe & Iwatsuki, 1981.

H. minutirameum C. Müller, Syn. Musc. Frond. 2: 689. 1851.
Other use: *Taxiphyllum minutirameum* (C. Müller) H. A. Miller & D. R. Smith, 1968.

H. minutissimum Sullivant & Lesquereux, Musci Bor.-Amer. 74. 1856 [1857].
Other use: *Platydictya jungermannioides* var. *minutissima* (Sullivant & Lesquereux) H. Crum, 1964, *Platydictya minutissima* (Sullivant & Lesquereux) H. Crum, 1969.

H. mitodes I. Hagen, Nyt Mag. Naturvidensk. 38: 340. 1900 [1901].
Other use: *Hypnum bridelianum* var. *mitodes* (I. Hagen) Nyholm, 1969.

H. mnioides W. J. Hooker, Musci Exot. 1: 77. 1818.
Other use: *Pyrrhobryum mnioides* (W. J. Hooker) Manuel, 1980.

Hypnum, continued.

H. mossmanianum C. Müller, Bot. Zeitung (Berlin) 9: 565. 1851.
Other use: *Hypnum cupressiforme* var. *mossmanianum* (C. Müller) Ando in Ando & Matteri, 1982.

H. napoanum De Notaris, Mem. Reale Accad. Sci. Torino, ser. 2, 18: 438. f. 1. 1859.
Other use: *Sematophyllum napoanum* (De Notaris) Steere, 1988.

H. neckeroides W. J. Hooker, Musci Exot. 1: 58. 1818.
Other use: *Thamnobryum neckeroides* (W. J. Hooker) E. Lawton, 1971.

H. nigricans W. J. Hooker in Kunth, 1822.

H. nigricans var. *pendulum* Hampe, Linnaea 20: 87. 1847.
Other use: *Squamidium nigricans* var. *pendulum* (Hampe) Pursell, 1973.

H. nitens Hedwig, Sp. Musc. Frond. 255. 1801.
Other use: *Homalothecium nitens* (Hedwig) H. Robinson, 1962 [1963].

H. noterophilum Sullivant & Lesquereux ex Sullivant, Musci Bor.-Amer. 76. 1856 [1857].
Other use: *Amblystegium fluviatile* var. *noterophilum* (Sullivant & Lesquereux ex Sullivant) Flowers, 1973.

H. novarae Reichardt, Hedwigia 7: 190. 1868.
Other use: *Entodon novarae* (Reichardt) Lin Shan-Hsiung, 1984.

H. oblongifolium Sullivant & Lesquereux, Proc. Amer. Acad. Arts 4: 279. 1859.
Other use: *Taxithelium oblongifolium* (Sullivant & Lesquereux) Iwatsuki, 1966.

H. opaeodon Sullivant, Proc. Amer. Acad. Arts 3: 77. 1854.
Other use: *Pylaisiadelpha opaeodon* (Sullivant) Buck, 1984.

H. oreganum Sullivant, Mem. Amer. Acad. Arts, n.s. 4: 172. 1849.
Other use: *Bryhnia oregana* (Sullivant) H. Robinson, 1962 [1963], *Kindbergia oregana* (Sullivant) Ochyra, 1982, *Stokesiella oregana* (Sullivant) H. Robinson, 1967, *Stokesiella praelonga* subsp. *oregana* (Sullivant) Persson & Schofield in Persson & Viereck, 1983.

H. orthocladon Palisot de Beauvois, Prodr. Aethéogam. 67. 1805, "*orthocladum*."
Other use: *Hygroamblystegium fluviatile* var. *orthocladon* (Palisot de Beauvois) H. Crum, Steere & L. E. Anderson, 1965 [1966].

H. oxycladon Bridel, Muscol. Recent. Suppl. 2: 123. 1812.
Other use: *Chamberlainia oxycladon* (Bridel) H. Robinson, 1962 [1963].

**H. pallens* W. P. Schimper ex Cardot, Wiss. Erb. Schwed. Südpolar-Exp. 4(8): 183. f. 41. 1908.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Hypnum pallens* (Swartz) Weber & D. Mohr, 1803.
Correct name: *Hypnum skottsbergii* Ando in Ando & Matteri, 1982.

H. patens W. J. Hooker, Musci Exot. 1: 56. 1818.
Other use: *Zelometeorium patens* (W. J. Hooker) Manuel, 1977.

H. patulum Hedwig, Sp. Musc. Frond. 279. pl. 73, in part. 1801.
Other use: *Zelometeorium patulum* (Hedwig) Manuel, 1977.

Hypnum, continued.

H. persistens C. Müller, Linnaea 43: 485. 1882.
Other use: *Bryohaplocladium persistens* (C. Müller) R. Watanabe & Iwatsuki, 1981.

**H. perspicuum* (Mitten) Jaeger, Ber. Thätigk. St. Gallischen Naturwiss. Ges. 1877-78: 318 (Gen. Sp. Musc. 2: 1336). 1880.
*illegitimate, later homonym (Article 64.1).
Basionym: *Stereodon perspicuus* Mitten, 1859.
Earlier name: *Hypnum perspicuum* Hampe, 1862.
Correct name: *Hypnum sikkimense* Ando, 1968.

H. piliferum Hedwig, 1801.

H. piliferum var. *filiforme* A. P. de Candolle, Fl. Franç. 6: 234. 1815.
Replaced name: *Hypnum filiforme* Bridel, 1812.
Other use: *Cirriphyllum piliferum* fo. *filiforme* (A. P. de Candolle) Margadant, 1972.
Note: new name, based on adoption of earlier epithet (Article 72.Note 1).

H. pinnatifidum Sullivant, Musci Bor.-Amer. (ed. 2) 85. 1865.
Other use: *Homalothecium pinnatifidum* (Sullivant) E. Lawton, 1965.

H. planifrons (Brotherus & Paris) Cardot, 1905.

H. planifrons var. *formosicum* Cardot, Beih. Bot. Centralbl. 19(2): 147. 1905.
Other use: *Ectropothecium zollingeri* var. *formosicum* (Cardot) Lai Ming-jou in Lai Ming-jou & Wang-Yang Jen-rong, 1976.

H. plumaeforme Wilson, 1848.

H. plumaeforme var. *sinensimolluscum* (C. Müller) Ando, Hikobia 6: 40. 1971.
Basionym: *Cupressina sinensimollusca* C. Müller, 1896.

H. pohliaecarpum Sullivant & Lesquereux, Proc. Amer. Acad. Arts 4: 280. 1859.
Other use: *Pseudotaxiphyllum pohliaecarpum* (Sullivant & Lesquereux) Iwatsuki, 1987.

H. polymorphum Hedwig, Sp. Musc. Frond. 259. pl. 66. 1801.
Other use: *Campylium polymorphum* (Hedwig) Pilous, 1963.

H. praelongum Hedwig, Sp. Musc. Frond. 258. 1801.
Other use: *Kindbergia praelonga* (Hedwig) Ochyra, 1982, *Stokesiella praelonga* (Hedwig) H. Robinson, 1967.

H. proliferum Bridel, 1801 [May].

H. proliferum var. *brevisetum* Bridel, Muscol. Recent. 2(2): 71. 1801.
Other use: *Hylocomium splendens* var. *brevisetum* (Bridel) Wijk & Margadant, 1968.

H. propinquum Harvey in W. J. Hooker, Icon. Pl. Rar. 1: pl. 24: f. 9. 1837.
Other use: *Pylaisiadelpha propinqua* (Harvey in W. J. Hooker) Buck, 1984.

H. prostratum Dozy & Molkenboer, Ann. Sci. Nat. Bot., ser. 3, 2: 309. 1844.
Other use: *Taxiphyllum prostratum* (Dozy & Molkenboer) Buck, 1987.

H. protensum Bridel, Muscol. Recent. 2(2): 85. pl. 2: f. 3. 1801.
Other use: *Campyliadelphus stellatus* var. *protensus* (Bridel) Ochyra, 1982 [1984].

H. pseudorevolutum Reimers, Hedwigia 71: 64. f. 22-25. 1931.
Other use: *Stereodontopsis pseudorevoluta* (Reimers) Ando, 1963.

Hypnum, continued.

H. pseudorufescens Hampe, Nuovo Giorn. Bot. Ital. 4: 285. 1872.
Other use: *Myurium pseudorufescens* (Hampe) Maschke, 1976, *Oedicladium pseudorufescens* B. C. Tan & Mohamed in Mohamed & B. C. Tan, 1988.

H. pseudosarmentosum Cardot & Thériot, Univ. Calif. Publ. Bot. 2: 305. pl. 27: f. 2. 1906.
Other use: *Warnstorfia pseudosarmentosa* (Cardot & Thériot) Tuomikoski & T. Koponen, 1979.

H. pseudostramineum C. Müller, Bot. Zeitung (Berlin) 13: 500. 1855.
Other use: *Warnstorfia pseudostraminea* (C. Müller) Tuomikoski & T. Koponen, 1979.

H. pulchellum Hedwig, Sp. Musc. Frond. 265. pl. 68: f. 1-4. 1801.
Other use: *Rhynchostegium pulchellum* (Hedwig) H. Robinson, 1967.

H. pumilum Wilson, Engl. Bot., Suppl., 2942. f. 1. 1848.
Other use: *Rhynchostegiella pumila* (Wilson) E. F. Warburg, 1962 [1963].

H. radicale Palisot de Beauvois, Prodr. Aethéogam. 68. 1805.
Other use: *Leptodictyum radicale* (Palisot de Beauvois) Kanda, 1975 [1976].

H. ravaudii Boulay, Fl. Crypt. Est, Muscin. 267. 1872, "*ravaudi*."
Other use: *Hypnum revolutum* var. *ravaudii* (Boulay) Ando in Ando & Matteri, 1982.

**H. ravaudii* fo. *mitodes* (I. Hagen) Nyholm, Ill. Moss Fl. Fennoscandia. II. Musci 582. 1965.
*invalid, basionym not cited (Article 33.2).

**H. ravaudii* fo. *recurvatum* (Lindberg & H. Arnell) Nyholm, Ill. Moss Fl. Fennoscandia. II. Musci 581. 1965.
*invalid, basionym not cited (Article 33.2).

**H. ravaudii* fo. *sauteri* (W. P. Schimper) Nyholm, Ill. Moss Fl. Fennoscandia. II. Musci 581. 1965.
*invalid, basionym not cited (Article 33.2).

H. recurvatum (Lindberg & H. Arnell) Kindberg, 1888 [1893].

H. recurvatum fo. *strictum* (Meylan) Ando, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 14: 181. 1973.
Basionym: *Hypnum fastigiatum* var. *strictum* Meylan, 1905.

H. revolutum (Mitten) Lindberg, 1867 [1866].

H. revolutum fo. *pumilum* (Husnot) Ando, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 14: 200. 1973.
Basionym: *Hypnum heufleri* var. *pumilum* Husnot, 1894.

H. revolutum var. *ravaudii* (Boulay) Ando in Ando & Matteri, Lindbergia 8: 62. 1982.
Basionym: *Hypnum ravaudii* Boulay, 1872.

H. revolutum fo. *subjulaceum* (Bryhn) Ando, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 14: 200. 1973.
Basionym: *Hypnum revolutum* var. *subjulaceum* Bryhn, 1907.

H. revolutum var. *subjulaceum* Bryhn, Rep. Second Norweg. Arctic Exped. "Fram" 1898-1902, Mosses 2(11): 136. 1907.
Other use: *Hypnum revolutum* fo. *subjulaceum* (Bryhn) Ando, 1973.

Hypnum, continued.

H. revolvens Swartz, Monthly Rev. 34: 538. 1801.
Other use: *Scorpidium revolvens* (Swartz) Rubers in Touw & Rubers, 1989.

H. riparium Hedwig, 1801.

H. riparium var. *fluitans* Lesquereux & T. P. James, Man. Mosses N. America 377. 1884.
Other use: *Amblystegium riparium* fo. *fluitans* (Lesquereux & T. P. James) Flowers, 1973.

H. rusciforme F. W. Weiss ex Bridel, 1801.

H. rusciforme var. *alopecuroides* Bridel, Bryol. Univ. 2: 500. 1827.
Other use: *Rhynchostegium alopecuroides* (Bridel) A. J. E. Smith, 1981 [1982].

H. rutabulum Hedwig, 1801.

H. rutabulum var. *campestre* C. Müller, Syn. Musc. Frond. 2: 368. 1851.
Other use: *Chamberlainia campestris* (C. Müller) H. Robinson, 1962 [1963].

H. rutenbergii C. Müller ex Geheeb, Abh. Naturwiss. Vereine Bremen 7: 213. 1881.
Other use: *Wijkia rutenbergii* (C. Müller ex Geheeb) H. Crum, 1971.

H. saitoi Ando, Acta Phytotax. Geobot. 33: 23. f. 1. 1982.
Type: Japan [Hokkaido]. Mt. Rakkodake-Mt. Tokachidake, 1370 m, *Saito 26718*. Holotype: HIRO.
Note: invalid, no Latin description (Article 36.1), in J. Hattori Bot. Lab. 35: 69. 1972.

H. salebrosum G. F. Hoffmann ex Weber & D. Mohr, Bot. Taschenb. 312. 1807.
Other use: *Chamberlainia salebrosa* (G. F. Hoffmann ex Weber & D. Mohr) H. Robinson, 1962 [1963].

H. sarmentosum Wahlenberg, Fl. Lapp. 380. 1812.
Other use: *Sarmentypnum sarmentosum* (Wahlenberg) Tuomikoski & T. Koponen, 1979.

H. sauteri W. P. Schimper in Sauter, Flora 33: 445. 1850.
Other use: *Hypnum bridelianum* var. *sauteri* (W. P. Schimper in Sauter) Nyholm, 1969.

H. scalare C. Müller, Syn. Musc. Frond. 2: 688. 1851.
Other use: *Clastobryum scalare* (C. Müller) Tixier, 1977.

H. scariosum Taylor, London J. Bot. 5: 65. 1846.
Other use: *Steerecleus scariosus* (Taylor) H. Robinson, 1987.

H. schmidii C. Müller, Bot. Zeitung (Berlin) 12: 574. 1854.
Other use: *Thamnobryum schmidii* (C. Müller) R. S. Chopra, 1977.

H. serrulatum Hedwig, Sp. Musc. Frond. 238. pl. 60. 1801.
Other use: *Brachythecium serrulatum* (Hedwig) H. Robinson, 1962 [1963], *Steerecleus serrulatus* (Hedwig) H. Robinson, 1987.

H. setschwanicum (Brotherus) Ando, Hikobia 6: 211. 1973.
Basionym: *Stereodon setschwanicus* Brotherus, 1929.

H. shensianum Ando, Bot. Mag. (Tokyo) 79: 765. 1966.
Replaced name: *Cupressina minuta* C. Müller, 1896.
Blocking name: *Hypnum minutum* Wilson, 1855.

Hypnum, continued.

H. sieberi C. Müller, Syn. Musc. Frond. 2: 504. 1851.
Other use: *Hypnodendron comosum* var. *sieberi* (C. Müller) Touw, 1971.

H. sikkimense Ando, J. Jap. Bot. 43: 171. 1968.
Replaced name: *Hypnum perspicuum* (Mitten) Jaeger, 1880.
Blocking name: *Hypnum perspicuum* Hampe, 1862.

**H. simplicissimum* Warnstorf, Allg. Bot. Z. Syst. 5(Beih. 1): 39. 1899.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Hypnum simplicissimum* Bridel, 1801.
Other use: *Drepanocladus polycarpus* var. *simplicissimus* Nyholm, 1969.

H. skottsbergii Ando in Ando & Matteri, Lindbergia 8: 62. 1982.
Replaced name: *Hypnum pallens* W. P. Schimper ex Cardot, 1908.
Blocking name: *Hypnum pallens* (Swartz) Weber & D. Mohr, 1803.
Note: invalid, basionym not cited (Article 33.2), in Ando, J. Hattori Bot. Lab. 35: 69. 1972.

H. smallii Sullivant & Lesquereux, Proc. Amer. Acad. Arts 4: 281. 1859.
Other use: *Isopterygium albescens* var. *smallii* (Sullivant & Lesquereux) Iwatsuki, 1966.

H. spiculiferum Mitten, J. Proc. Linn. Soc., Bot. 8: 34. 1864.
Other use: *Isothecium stoloniferum* var. *spiculiferum* (Mitten) R. D. Williams & Schofield, 1970.

**H. spinulosum* Sullivant & Lesquereux, Proc. Amer. Acad. Arts 4: 280. 1859.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Hypnum spinulosum* Hedwig, 1801.
Other use: *Dolichotheca spinulosa* Iwatsuki, 1963.

H. stellatum Hedwig, Sp. Musc. Frond. 280. 1801.
Other use: *Campyliadelphus stellatus* (Hedwig) Kanda, 1975 [1976].

H. stereopoma Spruce ex Mitten, J. Linn. Soc., Bot. 12: 561. 1869.
Other use: *Chamberlainia stereopoma* (Spruce ex Mitten) H. Robinson, 1962 [1963].

H. sticticola C. Müller, Linnaea 38: 616. 1874, "*sticticolum*."
Other use: *Sematophyllum sticticola* (C. Müller) Churchill, 1989.

H. stissophyllum Hampe & C. Müller, Syn. Musc. Frond. 2: 273. 1851.
Other use: *Rhaphidostichum stissophyllum* (Hampe & C. Müller) Chiang Tzen-yuh & Kuo Chen-meng, 1989.

H. stokesii Turner, Muscol. Hibern. Spic. 159. pl. 15: f. 2. 1804.
Other use: *Bryhnia stokesii* (Turner) H. Robinson, 1962 [1963], *Kindbergia praelonga* var. *stokesii* (Turner) Ochyra, 1982, *Stokesiella praelonga* var. *stokesii* (Turner) H. Crum, 1969.

H. subchrysogaster (Brotherus) Paris, 1900.

H. subchrysogaster var. *serrifolium* (Brotherus & Paris) Ando, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 16: 45. 1976 [1977].
Basionym: *Stereodon serrifolius* Brotherus & Paris, 1911.

Hypnum, continued.

H. subimponens Lesquereux, 1865.

H. subimponens subsp. *ulophyllum* (C. Müller) Ando, Bot. Mag. (Tokyo) 79: 766. 1966.

Basionym: *Cupressina ulophylla* C. Müller, 1896.

H. submicrotheca C. Müller, Bot. Zeitung (Berlin) 15: 781. 1857.

Other use: *Meiothecium submicrotheca* (C. Müller) H. A. Miller, H. O. Whittier & B. Whittier, 1978.

**H. submolluscoides* Ando, J. Hattori Bot. Lab. 35: 70. 1972.

*invalid, no Latin description (Article 36.1).

H. subnitidum Hampe, Ann. Sci. Nat. Bot., ser. 5, 5: 341. 1866.

Other use: *Wijkia subnitida* (Hampe) H. Crum, 1971.

H. tanytrichum Montagne, Ann. Sci. Nat. Bot., ser. 3, 4: 88. 1845.

Other use: *Wijkia tanytricha* (Montagne) H. Crum, 1971.

H. tavoyense W. J. Hooker, Icon. Pl. 1: pl. 24: f. 1. 1836.

Other use: *Entodontopsis tavoyensis* (W. J. Hooker) Buck & Ireland, 1985.

H. tenuicaule Spruce, Ann. Mag. Nat. Hist., ser. 2, 3: 283. 1849.

Other use: *Cirriphyllum tenuinerve* var. *tenuicaule* (Spruce) Nyholm, 1969.

H. thelidictyon Sullivant & Lesquereux, Proc. Amer. Acad. Arts 4: 280. 1859.

Other use: *Rhaphidostichum boschii* subsp. *thelidictyon* (Sullivant & Lesquereux) Seki, 1968.

H. trichocolea C. Müller, Flora 71: 417. 1888.

Other use: *Wijkia trichocolea* (C. Müller) H. Crum, 1971.

H. trichocoleoides C. Müller, Flora 69: 283. 1886.

Other use: *Wijkia trichocoleoides* (C. Müller) H. Crum, 1971.

H. tromsoeense Kaurin & H. Arnell in H. Arnell & C. E. O. Jensen, Bih. Kongl. Svenksa Vetensk.-Akad. Handl. 21 Afd. 3(10): 60. A. 1896.

Other use: *Brachythecium starkii* var. *tromsoeense* (Kaurin & H. Arnell in H. Arnell & C. E. O. Jensen) Nyholm, 1969.

H. truncatulum C. Müller, Syn. Musc. Frond. 2: 263. 1851.

Other use: *Phyllodon truncatulus* (C. Müller) Buck, 1987.

H. turfaceum Lindberg, Bot. Not. 1857: 142. 1857.

Other use: *Herzogiella turfacea* (Lindberg) Iwatsuki, 1970, *Sharpiella turfacea* (Lindberg) Iwatsuki, 1965.

H. turgescens T. Jensen, 1858.

H. turgescens var. *tenue* Berggren, Kongl. Svenska Vetensk. Acad. Handl. 13(7): 91. 1875.

Other use: *Calliergon turgescens* var. *tenue* (Berggren) Karczmarz, 1971.

H. turgescens var. *uliginosum* Lindberg, Öfvers. Förh. Kongl. Svenska Vetensk.-Akad. 23: 539. 1866 [1867].

Other use: *Calliergon turgescens* fo. *uliginosum* (Lindberg) Karczmarz, 1971.

H. uncinatum Hedwig, 1801.

H. uncinatum var. *drepanoides* Sanio, Bih. Kongl. Svenksa Vetensk.-Akad. Handl. 10(1): 24. 1885.

Other use: *Drepanocladus uncinatus* var. *drepanoides* (Sanio) Wijk & Margadant, 1965.

Hypnum, continued.

H. uncinatum subsp. *symmetricum* Renauld & Cardot, Rev. Bryol. 15: 72. 1888.
Other use: *Sanionia uncinata* var. *symmetrica* (Renauld & Cardot) H. Crum & L. E. Anderson, 1989.
Note: rank assigned in Index Muscorum.

H. valdiviae C. Müller, 1855.

H. valdiviae var. *pallidum* Lorentz, Bot. Zeitung (Berlin) 24: 188. 1866.
Other use: *Porothamnium viguieri* var. *pallidum* (Lorentz) Wijk & Margadant, 1961.

H. vallis-clausae Bridel, 1812.

H. vallis-clausae var. *atrovirens* Bridel, Bryol. Univ. 2: 534. 1827.
Other use: *Cratoneuron filicinum* var. *atrovirens* (Bridel) Ochyra, 1989.

H. vaucheri Lesquereux, 1846.

H. vaucheri fo. *gracile* Ando, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 16: 14. f. 25: i-k, 17. 1976 [1977].
Type: U.S.A. Montana: Flathead Co., above Shepard Memorial Spring, Bad Rock Canyon, *Hermann 20648*. Holotype: CANM.

H. vaucheri fo. *tereticaule* Ando, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 16: 12. f. 25: f-h, 26. 1976 [1977], "*tereticaulis*."
Type: Canada. Alberta: junction Lookout Road crossing of Sheep River, 530-19-5-WS, Bow River watershed, 4900 feet, *Bird & Glenn 14279*. Holotype: CANM.

H. velutinum Hedwig, Sp. Musc. Frond. 272. 1801.
Other use: *Chamberlainia velutina* (Hedwig) H. Robinson, 1962 [1963].

H. virginianum Bridel, Bryol. Univ. 2: 576. 1827.
Other use: *Bryohaplocladium virginianum* (Bridel) R. Watanabe & Iwatsuki, 1981.

H. wallichii Bridel, Bryol. Univ. 2: 416. 1827.
Other use: *Aerobryidium wallichii* (Bridel) C. C. Townsend, 1979.

H. wrightii Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 82. 1859.
Other use: *Entodontopsis wrightii* (Mitten) Buck & Ireland, 1985.

H. yokohamae (Brotherus) Paris, 1900.

H. yokohamae var. *kusatsuense* (Bescherelle) Seki, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 12: 76. 1968.
Basionym: *Isopterygium kusatsuense* Bescherelle, 1900.

Hypopterygium Bridel, 1827.

H. campenonii Renauld & Cardot in Renauld, Rev. Bot. Bull. Mens. 9: 400. 1891, "*campenoni*."
Other use: *Lopidium struthiopteris* var. *campenonii* (Renauld & Cardot in Renauld) Bizot in Bizot & Pócs, 1982.

H. commutatum C. Müller, Syn. Musc. Frond. 2: 6. 1850.
Other use: *Canalohypopterygium commutatum* (C. Müller) W. Frey & Schaepe, 1989.

H. elatum Tixier, Rev. Bryol. Lichénol. 34: 152. f. 15. 1966.
Type: Vietnam. Chapa, *Petelot 8*. Herbarium not specified by author.

Hypopterygium, continued.
H. glaucum Sullivant, Proc. Amer. Acad. Arts 3: 184. 1854.
Other use: *Hypopterygium novae-seelandiae* fo. *glaucum* (Sullivant) Vitt, 1974.
H. novae-seelandiae C. Müller, 1851.
H. novae-seelandiae fo. *glaucum* (Sullivant) Vitt, New Zealand J. Bot. 12: 205. 1974.
Basionym: *Hypopterygium glaucum* Sullivant, 1854.
**H. solmsianum* C. Müller in Kindberg ex Wijk, Margadant & Florschütz, Regnum Veg. 33: 183 (Ind. Musc. 3: 183). 1964.
*invalid, orthographic variant (Article 75.1).
Correct name: *Hypopterygium fauriei* subsp. *solmsianum* Kindberg, 1901.
H. vietnamicum Pócs, Rev. Bryol. Lichénol. 34: 806. pl. 3. 1966 [1967].
Type: Vietnam. Hoang-Lien-Son, in sivla saxosa supra opp. Sa-pa, 1700 m, *Pócs*, 1963. Holotype: BP.
Original placement: subsect. *Tamariscina*.

Indusiella Brotherus & C. Müller, 1898.
I. andersonii Delgadillo M., Bryologist 79: 99. f. 1-5. 1976.
Type: Chad. Tarso Tousside, Trou au Natron, 2500 m, *Scholz 574 p.p.* Holotype: B.
I. bryanii (R. S. Williams) Churchill in Funk & D. R. Brooks, Advances Cladistics 143. 1981.
Basionym: *Coscinodontella bryanii* R. S. Williams, 1927.

+**Intia** Neuberg, 1958.
+*I. vicaria* Fefilova, Listos. Mhi Permi Evr. Severa SSSR 23. f. 5. pl. 4. 1978.
Type: U.S.S.R. N of Pre-Ural Depression, Bolshoi Patok, Ufa Stage, *Inst. Geol. 306/39*. Holotype: SYKO.

Irelandia Buck, Brittonia 36: 179. 1984.
Type: *Isopterygium robusticaule* E. B. Bartram, *I. robusticaulis* (E. B. Bartram) Buck, holotype.
Original placement: Hypnaceae.
I. robusticaulis (E. B. Bartram) Buck, Brittonia 36: 179. 1984.
Basionym: *Isopterygium robusticaule* E. B. Bartram, 1946.

Ischyrodon C. Müller, 1875.
I. lepturus (Taylor) Schelpe, Contr. Bolus Herb. 2: 49. 1970.
Basionym: *Hypnum lepturum* Taylor, 1846.

Ishibaea Brotherus & S. Okamura, 1915.
I. japonica Brotherus & S. Okamura, 1915.
I. japonica var. *iwateana* Iishiba, Nihon-Senrui Bunrui 100. 1932.
Other use: *Lescuraea mutabilis* var. *iwateana* (Iishiba) Iwatsuki & Noguchi, 1973.

Isopterygiopsis Iwatsuki, J. Hattori Bot. Lab. 33: 379. 1970.
Type: *Plagiothecium muellerianum* W. P. Schimper, *I. muellerianua* (W. P. Schimper) Iwatsuki, holotype.
Original placement: Plagiotheciaceae?
I. alpicola (Lindberg ex Lindberg & H. Arnell) Hedenäs, J. Bryol. 15: 495. 1988.
Basionym: *Stereodon alpicola* Lindberg ex Lindberg & H. Arnell, 1890.
I. muelleriana (W. P. Schimper) Iwatsuki, J. Hattori Bot. Lab. 33: 379. 1970.
Basionym: *Plagiothecium muellerianum* W. P. Schimper, 1860.
I. pulchella (Hedwig) Iwatsuki, J. Hattori Bot. Lab. 63: 450. 1987.
Basionym: *Leskea pulchella* Hedwig, 1801.

Isopterygium Mitten, 1869.
I. albescens (W. J. Hooker in Schwägrichen) Jaeger, 1878.
I. albescens var. *smallii* (Sullivant & Lesquereux) Iwatsuki, J. Hattori Bot. Lab. 29: 62. 1966.
Basionym: *Hypnum smallii* Sullivant & Lesquereux, 1859.
I. alpicola (Lindberg ex Lindberg & H. Arnell) Nyholm, Ill. Moss Fl. Fennoscandia. II. Musci 776. 1969.
Basionym: *Stereodon alpicola* Lindberg ex Lindberg & H. Arnell, 1890.
Note: invalid, basionym not cited (Article 33.2), in Ill. Moss Fl. Fennoscandia. II. Musci 629. 1965.
I. alternans Cardot, Beih. Bot. Centralbl. 17: 37. 1904.
Other use: *Taxiphyllum alternans* (Cardot) Iwatsuki, 1963.
I. andamanicum Gangulee, Mosses E. India 8: 1953. f. 1002. 1980.
Type: India. Andaman and Nicobar: Port Blair, *Man*, 1893 (Bryoth. Levier). Holotype: BM.
**I. aquaticum* H. Robinson, Bryologist 67: 453. f. 33-36. 1964.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Isopterygium aquaticum* Dixon, 1922.
Correct name: *Isopterygium irelandii* H. Robinson, 1967.
Type: Honduras. Francisco Moranzan: along Rio Agua Amarilla, NE slope of Cerro de Uyuca, 900-1100 m, *Morton 7566*. Holotype: US.
I. barbieri Cardot & Coppey in Coppey, Bull. Soc. Sci. Nancy, ser. 3, 12(4): 6. f. 1. 1911.
Other use: *Taxiphyllum barbieri* (Cardot & Coppey in Coppey) Iwatsuki, 1982.
I. borrerianum (Spruce in C. Müller) Lindberg, 1874.
I. borrerianum var. *gracilens* (Austin ex Grout) H. Crum, Steere & L. E. Anderson, Bryologist 68: 433. 1965 [1966].
Basionym: *Plagiothecium elegans* var. *gracilens* Austin ex Grout, 1910.
I. borrerianum var. *terrestre* (Lindberg) H. Crum, Steere & L. E. Anderson, Bryologist 68: 433. 1965 [1966].
Basionym: *Rhynchostegium elegans* var. *terrestre* Lindberg, 1865.
I. brachycarpum Dixon, Trans. Roy. Soc. South Africa 8: 218. pl. 12: f. 19. 1920.
Other use: *Ectropothecium brachycarpum* (Dixon) Magill in Magill & Schelpe, 1979.

Isopterygium, continued.

I. brasiliense (Brotherus) Buck, Bryologist 92: 531. 1989.
Basionym: *Syringothecium brasiliense* Brotherus, 1926.

I. clerophilum Bescherelle, 1890.

I. clerophilum var. *latifolium* Tixier, Rev. Bryol. Lichénol. 34: 173. f. 29: 6-10. 1966.
Type: Vietnam. Chemin de Chapa a la cote 2000, 1800 m, *Petelot 110*. Herbarium not specified by author.

I. cuspidifolium Cardot, Bull. Soc. Bot. Genève 4: 387. 1912.
Other use: *Taxiphyllum cuspidifolium* (Cardot) Iwatsuki, 1965.

I. cylindricarpum Cardot, Rev. Bryol. 37: 56. 1910.
Other use: *Herzogiella cylindricarpa* (Cardot) Iwatsuki, 1970.

I. densum Cardot, Bull. Soc. Bot. Genève, ser. 2, 4: 386. 1912.
Other use: *Pseudotaxiphyllum densum* (Cardot) Iwatsuki, 1987.

I. drummondii H. Crum, Steere & L. E. Anderson, Bryologist 68: 434. 1965 [1966].
Replaced name: *Hypnum fulvum* W. J. Hooker & Wilson in Drummond, 1841.
Blocking name: *Hypnum fulvum* Bridel, 1801.

I. euryphyllum Cardot & Thériot, Bull. Acad. Int. Géogr. Bot. 18: iii. 1908.
Other use: *Plagiothecium euryphyllum* (Cardot & Thériot) Iwatsuki, 1970.

I. fauriei Cardot, Bull. Soc. Bot. Genève, ser. 2, 4: 386. 1912.
Other use: *Pseudotaxiphyllum fauriei* (Cardot) Iwatsuki, 1987.

I. fontigenum (C. Müller) Buck & Ireland, Fl. Neotrop. 50: 19. 1989.
Basionym: *Plagiothecium fontigenum* C. Müller, 1901.

I. homomallifolium Redfearn, Bryologist 76: 440. f. 1-11. 1973.
Type: U.S.A. Texas: Kimble Co., N-facing bluffs along North Llano River, ca. 1/2 mile S of Roosevelt, *Redfearn 27190*. Holotype: NY; isotypes: SMS, DUKE, MICH.

I. irelandii H. Robinson, Bryologist 70: 43. 1967.
Replaced name: *Isopterygium aquaticum* H. Robinson, 1964.
Blocking name: *Isopterygium aquaticum* Dixon, 1922.

I. jamaicense (E. B. Bartram) Buck, Brittonia 36: 88. 1984.
Basionym: *Platygyriella jamaicensis* E. B. Bartram, 1936.

I. kusatsuense Bescherelle, Öfvers. Förh. Kongl. Svenska Vetensk.-Akad. 57: 294. 1900.
Other use: *Clastobryella kusatsuensis* (Bescherelle) Iwatsuki, 1963, *Hypnum yokohamae* var. *kusatsuense* (Bescherelle) Seki, 1968.

I. machrisianum (H. Crum) Ireland, Bryologist 87: 356. 1984 [1985].
Basionym: *Taxiphyllum machrisianum* H. Crum, 1957.

I. maebarae Sakurai, J. Jap. Bot. 26: 202. 1951.
Other use: *Pseudotaxiphyllum maebarae* (Sakurai) Iwatsuki, 1987.

I. micans (Swartz) Kindberg, 1888.

I. micans var. *groutii* (Cardot & Thériot) H. Crum, Steere & L. E. Anderson, Bryologist 67: 163. 1964.
Basionym: *Plagiothecium groutii* Cardot & Thériot, 1904.

Isopterygium, continued.
I. minutirameum (C. Müller) Jaeger, 1878.
I. minutirameum fo. *brevifolium* Fleischer, Musci Buitenzorg 4: 1427. 1923, "*brevifolia*."
Other use: *Taxiphyllum minutirameum* var. *brevifolium* (Fleischer) H. O. Whittier, 1975.
I. minutirameum var. *vitiense* Dixon in Dixon & Greenwood, Proc. Linn. Soc. New South Wales 55: 295. 1930.
Other use: *Taxiphyllum minutirameum* var. *vitiense* (Dixon in Dixon & Greenwood) H. O. Whittier, 1975.
I. obtusulum Cardot, Beih. Bot. Centralbl. 19(2): 140. f. 31. 1905.
Other use: *Ectropothecium obtusulum* (Cardot) Iwatsuki, 1967.
I. perrobustum Brotherus in Cardot, Bull. Soc. Bot. Genève, ser. 2, 4: 387. 1912.
Other use: *Herzogiella perrobusta* (Brotherus in Cardot) Iwatsuki, 1970.
I. plumicaule (C. Müller) Buck, Brittonia 39: 221. 1987.
Basionym: *Hookeria plumicaulis* C. Müller, 1879.
I. pulchellum (Hedwig) Jaeger, 1878.
**I. pulchellum* var. *antarcticum* (Mitten) Zanten in Zinderen Bakker, Winterbottom & R. A. Dyer, Marion & Prince Edward Islands, Musci 216. 1971.
*invalid, basionym not cited (Article 33.2).
I. robusticaule E. B. Bartram, Bryologist 49: 122. 1946.
Other use: *Irelandia robusticaulis* (E. B. Bartram) Buck, 1984, *Taxiphyllum robusticaule* (E. B. Bartram) Ireland, 1984 [1985].
I. sprucei (Mitten) Buck, Bryologist 92: 529. 1989.
Basionym: *Syringothecium sprucei* Mitten, 1869.
**I. taxirameum* Brotherus & Watts in H. P. Ramsay, Taxon 29: 467. 1980.
*invalid, no Latin description (Article 36.1), not (Mitten) Jaeger (1878).
I. tonkinense Bescherelle, Bull. Soc. Bot. France 41: 85. 1894.
Other use: *Taxiphyllum minutirameum* var. *tonkinense* (Bescherelle) H. O. Whittier, 1975.

Isotheciopsis Brotherus in Handel-Mazzetti, 1929.
I. amoena (Fleischer ex Brotherus) Noguchi, Bryologist 73: 136. 1970.
Basionym: *Barbella amoena* Fleischer ex Brotherus, 1906.
I. comes (Griffith) Noguchi, Bryologist 73: 134. 1970.
Basionym: *Neckera comes* Griffith, 1843.
I. pilifera (Brotherus & M. Yasuda) Noguchi, Bryologist 73: 135. 1970.
Basionym: *Barbella pilifera* Brotherus & M. Yasuda, 1926.

Isothecium Bridel, 1827.
I. alopecuroides (Lamarck ex Dubois) Isoviita, Ann. Bot. Fenn. 18: 202. 1981.
Basionym: *Hypnum alopecuroides* Lamarck ex Dubois, 1803.

Isothecium, continued.

I. archeri Mitten in W. J. Hooker & Wilson, Fl. Tasman. 2: 206. pl. 175: f. 8. 1859.

Other use: *Hypnodendron spininervium* subsp. *archeri* (Mitten in W. J. Hooker & Wilson) Touw, 1971.

I. aureum Spruce, Musci Pyren. 145. 1847.

Replaced name: *Hypnum aureum* Lagasca y Segura, García & Clemente y Rubio, 1802.

Blocking name: *Hypnum aureum* Lamarck ex Bridel, 1801.

Other use: *Homalothecium aureum* (Spruce) H. Robinson, 1962 [1963].

I. cardotii Kindberg, Bull. Torrey Bot. Club 17: 278. 1890, "*cardoti*."

Other use: *Isothecium spiculiferum* var. *cardotii* (Kindberg) H. Crum, Steere & L. E. Anderson, 1964.

I. cristatum (Hampe) H. Robinson, Bryologist 65: 95. 1962 [1963].

Basionym: *Leptohymenium cristatum* Hampe, 1860.

I. cristatum var. *howei* (Kindberg) H. Crum, Steere & L. E. Anderson, Bryologist 67: 163. 1964.

Basionym: *Isothecium howei* Kindberg, 1895.

I. cristatum var. *lutescens* (Lesquereux & T. P. James) H. Crum, Steere & L. E. Anderson, Bryologist 67: 163. 1964.

Basionym: *Hypnum brewerianum* var. *lutescens* Lesquereux & T. P. James, 1884.

**I. eumyosuroides* Dixon, 1934.

*illegitimate, type of earlier name included (Article 63.1).

I. eumyosuroides var. *cavernarum* (Molendo) H. Crum, Steere & L. E. Anderson, Bryologist 68: 434. 1965 [1966].

Basionym: *Isothecium myosuroides* var. *cavernarum* Molendo, 1875.

I. howei Kindberg, Rev. Bryol. 22: 82. 1895.

Other use: *Isothecium cristatum* var. *howei* (Kindberg) H. Crum, Steere & L. E. Anderson, 1964.

I. kenyae Tosco & Piovano, Allionia 4: 142. f. 21. 1956.

Note: not in Index Muscorum.

I. myosuroides Bridel, 1827.

I. myosuroides var. *cavernarum* Molendo, Jahres-Ber. Naturhist. Vereins Passau 10: 220. 1875.

Other use: *Isothecium eumyosuroides* var. *cavernarum* (Molendo) H. Crum, Steere & L. E. Anderson, 1965 [1966].

I. myosuroides fo. *spelaeum* Grom, Nova Hedwigia 5: 478. 1963.

Type: Yugoslavia. Im Inneren der Hohle von Postojna, *Grom 443*. Holotype: herb. Grom.

**I. myosuroides* fo. *tenuinerve* (Kindberg) Nyholm, Ill. Moss Fl. Fennoscandia. II. Musci 412. 1965.

*invalid, basionym not cited (Article 33.2).

I. myurellum Kindberg, Bull. Torrey Bot. Club 17: 269. 1890.

Other use: *Isothecium spiculiferum* var. *myurellum* (Kindberg) H. Crum, Steere & L. E. Anderson, 1964.

Isothecium, continued.
I. myurum Bridel, 1827.
I. myurum fo. *elongatum* (W. P. Schimper in B.S.G.) Margadant, Lindbergia 1: 128. 1972.
Basionym: *Isothecium myurum* var. *elongatum* W. P. Schimper in B.S.G., 1851.
I. myurum var. *elongatum* W. P. Schimper in B.S.G., Bryol. Eur. fasc. 46-47. Monogr. 5. pl. 1: β (5: 243. pl. 533: β). 1851.
Other use: *Isothecium myurum* fo. *elongatum* (W. P. Schimper in B.S.G.) Margadant, 1972.
I. nervosum (Kiaer ex Renauld) Buck, Brittonia 37: 40. 1985.
Basionym: *Microthamnium nervosum* Kiaer ex Renauld, 1897.
I. nilgheriense Montagne, Ann. Sci. Nat. Bot., ser. 2, 17: 246. 1842.
Other use: *Homalothecium nilgheriense* (Montagne) H. Robinson, 1962 [1963].
I. pandum J. D. Hooker & Wilson, Fl. Nov.-Zel. 2: 105. pl. 89: f. 1. 1854.
Other use: *Thamnobryum pandum* (J. D. Hooker & Wilson) Steere & G. A. M. Scott, 1973 [1974].
I. spiculiferum (Mitten) Macoun & Kindberg, 1892.
I. spiculiferum var. *cardotii* (Kindberg) H. Crum, Steere & L. E. Anderson, Bryologist 67: 163. 1964.
Basionym: *Isothecium cardotii* Kindberg, 1890.
I. spiculiferum var. *myurellum* (Kindberg) H. Crum, Steere & L. E. Anderson, Bryologist 67: 163. 1964.
Basionym: *Isothecium myurellum* Kindberg, 1890.
I. stoloniferum Bridel, 1827.
I. stoloniferum var. *spiculiferum* (Mitten) R. D. Williams & Schofield, Taxon 19: 484. 1970.
Basionym: *Hypnum spiculiferum* Mitten, 1864.

Itatiella G. L. Smith, Mem. New York Bot. Gard. 21: 52. 1971.
Type: *Psilopilum ulei* C. Müller, *I. ulei* (C. Müller) G. L. Smith, holotype.
Original placement: Polytrichaceae.
I. ulei (Brotherus ex C. Müller) G. L. Smith, Mem. New York Bot. Gard. 21(3): 52. 1971.
Basionym: *Psilopilum ulei* Brotherus ex C. Müller, 1898.

Iwatsukiella Buck & H. Crum, J. Hattori Bot. Lab. 44: 351. 1978.
Type: *Heterocladium leucotrichum* Mitten, *I. leucotricha* (Mitten) Buck & Crum, holotype.
Original placement: Leskeaceae.
I. leucotricha (Mitten) Buck & H. Crum, J. Hattori Bot. Lab. 44: 352. 1978.
Basionym: *Heterocladium leucotrichum* Mitten, 1891.

Iwatsukiella, continued.

I. noguchii (Sakurai) Buck & H. Crum, J. Hattori Bot. Lab. 44: 352. 1978.
Basionym: *Habrodon noguchii* Sakurai, 1932.
Note: valid, error of bibliographic citation of basionym (Article 33.2), "*Haplodon noguchii*."

Jaegerina C. Müller, 1876.

J. laticuspis J. Taylor & Potier de la Varde in Potier de la Varde, Rev. Bryol. Lichénol. 25: 225. f. 4. 1956, "*laticuspes*."
Other use: *Jaegerina stolonifera* subsp. *laticuspis* (J. Taylor & Potier de la Varde in Potier de la Varde) Argent, 1973.

J. retrosquarrosa B. H. Allen, Crosby & Magill, Cryptog. Bryol. Lichénol. 7: 48. f. 1-12. 1986.
Type: Mauritius. Montagne Cocotte Nature Reserve, 770 m, *Lorence & Lecordier 2159*. Holotype: MO; isotypes: BM, DUKE, E, EA, H, MAU, PC, TNS.

J. stolonifera (C. Müller) C. Müller, 1876.

J. stolonifera subsp. *laticuspis* (J. Taylor & Potier de la Varde in Potier de la Varde) Argent, J. Bryol. 7: 372. 1973.
Basionym: *Jaegerina laticuspis* J. Taylor & Potier de la Varde in Potier de la Varde, 1956.

***Jonesia** Bizot, Pierrot & Pócs, Rev. Bryol. Lichénol. 40: 25. 1974.
*invalid, name of only included species did not fulfill requrements of valid publication (Article 42.1c).
Type: *J. sphaerocarpa* Bizot, invalid name.

**J. sphaerocarpa* Bizot in Bizot, Pierrot & Pócs, Rev. Bryol. Lichénol. 40: 25. pl. 1. 1974.
*invalid, single element not cited as holotype (Article 37.3).
Type: Nigeria. Niger: Bonu Abuja, *Jones 1067*. Herbaria: "herbiers Bizot et Jones."

***Jonesiobryum** Bizot & Pócs, Egri Ho Si Minh Tanárképzö Föisk. Füz. 12: 444. 1974.
*invalid, replaced name invalid (Article 33.2).

**J. cerradense* Vital, J. Bryol. 12: 383. f. 1-2. 1983.
*invalid, genus invalid (Article 43.1).

**J. sphaerocarpum* (Bizot) Bizot & Pócs, Acta Bot. Acad. Sci. Hung. 28: 17. 1982.
*invalid, basionym invalid (Article 33.2).

**J. termitarum* Vital, J. Bryol. 12: 389. f. 4. 1983.
*invalid, genus invalid (Article 43.1).

Juratzkaea Lorentz, 1866, "*Juratzkaa*."

J. argentinica (Thériot) Buck, Brittonia 33: 562. 1981.
Basionym: *Juratzkaea seminervis* var. *argentinica* Thériot, 1936.

Juratzkaea, continued.
J. incisa (Buck) Catcheside & Stone, J. Bryol. 11: 103. 1980.
Basionym: *Juratzkaea leptura* subsp. *incisa* Buck, 1977.
J. leptura (Taylor) W. A. Weber ex Buck, Rev. Bryol. Lichénol. 43: 319. 1977.
Basionym: *Hypnum lepturum* Taylor, 1846.
J. leptura subsp. *incisa* Buck, Rev. Bryol. Lichénol. 43: 322. f. 21-24. 1977.
Type: South Africa. Near Simonstown, *Bunbury s.n.* Holotype: BM.
Other use: *Juratzkaea incisa* (Buck) Catcheside & Stone, 1980.
J. roseorum (R. S. Williams) Buck, Rev. Bryol. Lichénol. 43: 322. 1977.
Basionym: *Rozea roseorum* R. S. Williams, 1927.
J. seminervis (Kunze ex Schwägrichen) Lorentz, 1866.
J. seminervis subsp. *argentinica* (Thériot) Buck, Rev. Bryol. Lichénol. 43: 318. 1977.
Basionym: *Juratzkaea seminervis* var. *argentinica* Thériot, 1936.
J. seminervis var. *argentinica* Thériot, Ann. Cryptog. Exot. 8: 137. 1936.
Other use: *Juratzkaea argentinica* (Thériot) Buck, 1981, *Juratzkaea seminervis* subsp. *argentinica* (Thériot) Buck, 1977.
J. sinensis Fleischer ex Brotherus, Nat. Pflanzenfam. (ed. 2) 11: 290. f. 640. 1925.
Other use: *Juratzkaeella sinensis* (Fleischer ex Brotherus) Buck, 1977.

Juratzkaeella Buck, Rev. Bryol. Lichénol. 43: 312. 1977.
Type: *Juratzkaea sinensis* Broth., *J. sinensis* (Broth.) Buck, holotype.
Original placement: Fabroniaceae.
J. sinensis (Fleischer ex Brotherus) Buck, Rev. Bryol. Lichénol. 43: 313. 1977.
Basionym: *Juratzkaea sinensis* Fleischer ex Brotherus, 1925.

***Kashyapia** R. S. Chopra, Taxon. Indian Mosses 297. 1975.
*illegitimate, type of earlier name included (Article 63.1).
Replaced name: *Cleistostoma* Bridel, 1826.
Correct name: *Syrrhopodon* Schwägrichen, 1824.
Note: published as a substitute name for *Cleistostoma* Bridel, which is nomenclaturally synonymous with *Syrrhopodon*.
**K. ambiguua* (W. J. Hooker) R. S. Chopra, Taxon. Indian Mosses 298. 1975.
*invalid, basionym not cited (Article 33.2).

Kiaeria I. Hagen, 1915.
K. riparia (H. Lindberg) Corley, J. Bryol. 10: 384. 1979.
Basionym: *Oncophorus riparius* H. Lindberg, 1900.

Kindbergia Ochyra, Lindbergia 8: 53. 1982.
Replaced name: *Stokesiella* (Kindberg) H. Robinson, 1967.
Blocking name: *Stokesiella* Lemmermann, 1908.
K. africana (Herzog) Ochyra in Ochyra & Pócs, Acta Bot. Acad. Sci. Hung. 28: 385. 1982.
Basionym: *Eurhynchium africanum* Herzog, 1937.

Kindbergia, continued.

K. africana var. *latifolia* (Demaret & J. Leroy) Ochyra in Ochyra & Pócs, Acta Bot. Acad. Sci. Hung. 28: 386. 1982.
Basionym: *Eurhynchium africanum* var. *latifolium* Demaret & J. Leroy, 1944.

K. arbuscula (Brotherus) Ochyra, Lindbergia 8: 54. 1982.
Basionym: *Eurhynchium arbuscula* Brotherus, 1909.

K. arbuscula var. *acuminata* (Takaki) Ochyra, Lindbergia 12: 54. 1982.
Basionym: *Eurhynchium arbuscula* var. *acuminatum* Takaki, 1956.

K. brittoniae (Grout) Ochyra, Lindbergia 8: 54. 1982.
Basionym: *Eurhynchium brittoniae* Grout, 1898.

K. oedogonium (C. Müller) Ochyra in Schultze-Motel & Menzel, Beih. Nova Hedwigia 88: 56. 1987.
Basionym: *Cratoneuron oedogonium* C. Müller, 1897.

K. oregana (Sullivant) Ochyra, Lindbergia 8: 54. 1982.
Basionym: *Hypnum oreganum* Sullivant, 1849.

K. praelonga (Hedwig) Ochyra, Lindbergia 8: 54. 1982.
Basionym: *Hypnum praelongum* Hedwig, 1801.

K. praelonga var. *californica* (Grout) Ochyra, Lindbergia 8: 54. 1982.
Basionym: *Eurhynchium praelongum* var. *californicum* Grout, 1898.

K. praelonga var. *congoana* (Thériot) Ochyra, Lindbergia 8: 54. 1982.
Basionym: *Eurhynchium stokesii* var. *congoanum* Thériot, 1930.

K. praelonga var. *distichophylla* (H. Winter) Ochyra, Lindbergia 8: 54. 1982.
Basionym: *Eurhynchium stokesii* var. *distichophyllum* H. Winter, 1914.

K. praelonga var. *inundata* (Bottini) Ochyra, Lindbergia 8: 54. 1982.
Basionym: *Eurhynchium praelongum* var. *inundatum* Bottini, 1903.

K. praelonga var. *laxiretis* (Renauld & Cardot) Ochyra, Lindbergia 8: 54. 1982.
Basionym: *Eurhynchium praelongum* var. *laxirete* Renauld & Cardot, 1902.

K. praelonga var. *stokesii* (Turner) Ochyra, Lindbergia 8: 54. 1982.
Basionym: *Hypnum stokesii* Turner, 1804.

K. praelonga var. *tenella* (M. Lange) Ochyra, Lindbergia 8: 54. 1982.
Basionym: *Eurhynchium praelongum* var. *tenellum* M. Lange, 1869.

K. praelonga var. *teneriffae* (H. Winter) Ochyra, Lindbergia 8: 54. 1982.
Basionym: *Oxyrrhynchium praelongum* var. *teneriffae* H. Winter, 1914.

Kingiobryum H. Robinson, Bryologist 70: 9. 1967.
Type: *K. paramicola* Robinson, holotype.
Original placement: Dicranaceae.

K. paramicola H. Robinson, Bryologist 70: 9. 1967.
Type: Colombia. Cundinamarca: Eastern Cordillera, Calera, Hacienda La Siberia, Paramo de Palacio, 3490 m, *King, Jaramillo & Guevara c-1015.* Holotype: US; isotype: COL.

Kleioweisiopsis Dixon, 1920.
**K. involuta* Bizot, Rev. Bryol. Lichénol. 40: 119. pl. 11. 1974.
*invalid, single element not cited as holotype (Article 37.3).
Type: Tanzania. Sringa Distr., near Ulele, *Ganes & Pócs 6317/c*. Herbaria: "herbiers Pócs et Bizot."

Koehlreutera Grindel, Bot. Taschenb. 309. 1803.
Note: treated as invalid in Index Muscorum.
K. hygrometrica (Hedwig) Grindel, Bot. Taschenb. 317. 1803.
Basionym: *Funaria hygrometrica* Hedwig, 1801.
Note: treated as invalid in Index Muscorum.

Koponenia Ochyra, J. Bryol. 13: 479. 1985.
Type: *Sciaromium holoneuron* Herzog, *K. holoneuron* (Herzog) Ochyra, holotype.
Original placement: Hypnobartlettiaceae.
K. holoneuron (Herzog) Ochyra, J. Bryol. 13: 482. 1985.
Basionym: *Sciaromium holoneuron* Herzog, 1916.

+**Kosjunia** Fefilova, Geol. Polez. Isokop. Sevoro-Vostoka Evrop. Chasti SSSR 1972: 85. 1973.
Type: *K. polyedra* Fefilova, holotype.
Original placement: not indicated by author.
+*K. polyedra* Fefilova, Geol. Polez. Isokop. Sevoro-Vostoka Evrop. Chasti SSSR 1972: 86. pl. 1: f. 1. 1973.
Type: U.S.S.R. N of Pre-Ural Depression, Bolshaia Synia, Kazan Stage, *Inst. Geol. 306/95*. Holotype: SYKO.
+*K. retusa* Fefilova, Geol. Polez. Isokop. Sevoro-Vostoka Evrop. Chasti SSSR 1972: 87. pl. 1: f. 2. 1973.
Type: U.S.S.R. N of Pre-Ural Depression, Bolshoi Patok, Ufa Stage, *Geol. Inst. 306/52*. Holotype: SYKO.

***Lasia** Palisot de Beauvois, 1804.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Lasia* Loureiro, 1790.
Correct name: *Forsstroemia* Lindberg, 1863.
L. australis C. Müller, Linnaea 35: 620. 1868.
Other use: *Forsstroemia trichomitria* subsp. *australis* (C. Müller) Stark, 1987.

Leiodontium Brotherus in Handel-Mazzetti, 1929.
L. complanatum Dixon, J. Bombay Nat. Hist. Soc. 39(4): 794. pl. 1: f. 16. 1937.
Other use: *Micralsopsis complanata* (Dixon) Buck, 1987.

Leiomela (Mitten) Brotherus in Engler & Prantl, 1904.

L. ecuadorensis H. Robinson in H. Robinson, Holm-Nielsen & Lojtnant, Lindbergia 4: 112. f. 5. 1977.
Type: Ecuador. Carchi: Paramo El Angel, pass on road El Angel-Tulcan, 3750-3850 m, *Holm-Nielsen et al. 5415*. Holotype: AAU; isotype: US.

L. lopezii Griffin, Rev. Bryol. Lichénol. 43: 383. f. 1. 1977.
Type: Venezuela. Tachira: cuenca de la laguna El Cienegon, abajo del pico El Pulpito, paramo El Batallon, 3220-3440 m, *Griffin, Lopez & Ruiz-Teran 461*. Holotype: MER; isotypes: FLAS, US. Other indicated distribution: Colombia.

Lepidopilidium (C. Müller) Brotherus in Engler & Prantl, 1907.

L. plebejum (C. Müller) Sehnem, Pesquisas, Bot. 33: 32. 1979.
Basionym: *Lepidopilum plebejum* C. Müller, 1900.

L. regnellii (Ångström) Buck & Ireland, Fl. Neotrop. 50: 19. 1989.
Basionym: *Plagiothecium regnellii* Ångström, 1876.

Lepidopilum (Bridel) Bridel, 1827, conserved name.

L. albescens Hampe, Vidensk. Meddel. Dansk Naturhist. Foren. Kjøbenhavn, ser. 3, 9-10: 265. 1878.
Other use: *Calyptrochaeta albescens* (Hampe) Buck, 1987.

L. antisanense E. B. Bartram, Rev. Bryol. Lichénol. 33: 11. 1964 [1965].
Type: Ecuador. Shinguipino, between Rio Napo and Tena, 8 km (SE) of Tena, 1500 feet, *Grubb 2925*. Holotype: BM. Paratype cited.
Original placement: sect. *Eulepidopilum* [sic].

L. attenuatum E. B. Bartram, Rev. Bryol. Lichénol. 33: 11. 1964 [1965].
Type: Ecuador. Shinguipino, 8 km SE of Tena, 1500 feet, *Grubb 2939a*. Holotype: BM. Paratype cited.
Original placement: sect. *Eulepidopilum* [sic].

L. calomicron Brotherus in Urban, Symb. Antill. 3: 426. 1903.
Other use: *Crossomitrium calomicron* (Brotherus in Urban) W. H. Welch, 1971.

L. crispifolium E. B. Bartram, Rev. Bryol. Lichénol. 33: 11. 1964 [1965].
Type: Ecuador. Shinguipino rain forest between Rio Napo and Tena, 8 km SE of Tena, 1500 feet, *Grubb 2947*. Holotype: BM. Paratypes cited.

L. macrophyllum Sehnem, Pesquisas, Bot. 33: 49. pl. 14: b. 1979.
Type: Brazil: Rio Grande do Sul. Sao Francisco de Paula, Taimbe, 800 m, *Sehnem 6414*. Herbarium not specified by author.

L. nutans Hampe, Linnaea 32: 153. 1863.
Other use: *Calyptrochaeta nutans* (Hampe) Churchill, 1989.

L. plebejum C. Müller, Hedwigia 39: 272. 1900.
Other use: *Lepidopilidium plebejum* (C. Müller) Sehnem, 1979.

L. pulcherrimum Steere, Brittonia 34: 438. f. 11-19. 1982.
Type: Ecuador. Los Rios: Hacienda Clementina, Samama, 750 m, *Harling 2157*. Holotype: NY; isotype: S.

Lepidopilum, continued.
L. stenodictyum Sehnem, Pesquisas, Bot. 33: 53. pl. 16: d. 1979.
Type: Brazil. Rio de Janeiro: Nova Friburgo, 1000 m, *Sehnem 7714*. Herbarium not specified by author. Other indicated distribution: Brazil (Rio Grande do Sul).
L. subtortifolium E. B. Bartram, Bryologist 49: 119. 1946.
Other use: *Cyclodictyon subtortifolium* (E. B. Bartram) Buck, 1987.
L. versicolor Mitten, J. Proc. Linn. Soc., Bot. 8: 159. 1864.
Other use: *Thamniopsis versicolor* (Mitten) Buck, 1987.
L. virens Cardot, Bull. Herb. Boissier, sér. 2, 5: 312. pl. 2: f. 20-31. 1905.
Other use: *Tetrastichium virens* (Cardot) Churchill, 1989.

***Leptochlaena** Montagne, 1845.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Leptochlaena* Sprengel, 1830.
L. chilensis Montagne, Ann. Sci. Nat. Bot., ser. 3, 4: 106. 1845.
Other use: *Pohlia chilensis* (Montagne) A. J. Shaw, 1987.
L. graciliseta Hampe, Linnaea 32: 130. 1863.
Other use: *Schizymenium gracilisetum* (Hampe) A. J. Shaw, 1985.

Leptocladiella Fleischer, Musci Buitenzorg 4: 1205. 1923.
Other use: *Macrothamnium* subgen. *Leptocladiella* (Fleischer) Noguchi, 1972.
L. delicatula (Brotherus) Rohrer, J. Hattori Bot. Lab. 59: 266. 1985.
Basionym: *Macrothamnium delicatulum* Brotherus, 1929.
L. flagellaris T. Koponen & Norris, Acta Bot. Fenn. 131: 58. f. 2-4. 1985.
Type: Papua New Guinea. Morobe: Mt. Sarawaket Southern Range, 2.5 km SSW of Iloko, 1900-2100 m, *Norris 63839*. Holotype: H; isotypes: HSC, LAE. Paratypes cited.

Leptodictyum (W. P. Schimper) Warnstorf, 1906.
L. bandaiense (Brotherus & Paris ex Takaki) Kanda, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 15: 242. 1975 [1976].
Basionym: *Rhynchostegiella bandaiensis* Brotherus & Paris ex Takaki, 1943.
L. humile (Palisot de Beauvois) H. Crum, Mosses Great Lakes For. (ed. 3) 271. 1983.
Basionym: *Hypnum humile* Palisot de Beauvois, 1805.
Note: redundant combination in H. Crum & L. E. Anderson, Bryologist 92: 533. 1989.
L. mizushimae (Sakurai) Kanda, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 15: 243. 1975 [1976].
Basionym: *Hygrohypnum mizushimae* Sakurai, 1952.
L. pennellii (E. B. Bartram) H. Robinson, Bryologist 65: 128. 1962 [1963].
Basionym: *Brachythecium pennellii* E. B. Bartram, 1951.
L. radicale (Palisot de Beauvois) Kanda, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 15: 247. 1975 [1976].
Basionym: *Hypnum radicale* Palisot de Beauvois, 1805.

Leptodon D. Mohr, 1803, conserved name.
L. floridanus Lindberg, Moss. Dillen. Hist. Musc. 53. 1883.
Other use: *Forsstroemia trichomitria* var. *floridana* (Lindberg) H. Crum, Steere & L. E. Anderson, 1964.

Leptodontiella Zander & E. Hegewald, Bryologist 79: 16. 1976.
Type: *Leptodontium apiculatum* Zander, *L. apiculata* (Zander) Zander & E. Hegewald, holotype.
Original placement: Pottiaceae.
L. apiculata (Zander) Zander & E. Hegewald, Bryologist 79: 16. 1976.
Basionym: *Leptodontium apiculatum* Zander, 1972.

Leptodontium (C. Müller) Hampe ex Lindberg, 1865.
L. sect. *Coronopapillata* Zander, Bryologist 75: 264. 1972.
Type: *L. longicaule* Mitten, holotype.
L. sect. *Crassicostata* Zander, Bryologist 75: 256. 1972.
Type: *Didymodon pungens* Mitten, *L. pungens* (Mitten) Kindberg, holotype.
L. sect. *Verecunda* Zander, Bryologist 75: 230. 1972.
Type: *Bryum flexifolium* Dickson ex Withering, *L. flexifolium* (Dickson ex Withering) Hampe in S. O. Lindberg, holotype.
L. allorgei Bizot, Acta Bot. Acad. Sci. Hung. 18: 24. f. 9: 1-8. 1973.
Type: Kenya. Klarwills-Hut, Teleki, 4800 m, *Balazs 108*. Holotype: DI; isotype: EGR.
L. apiculatum Zander, Bryologist 75: 238. f. 68-72. 1972.
Type: Peru. Lima: heights above Atacongo, *Stork, Horton & Vargas 9278*. Holotype: US; isotype: FH.
Other use: *Leptodontiella apiculata* (Zander) Zander & E. Hegewald, 1976.
L. exasperatum Cardot, Rev. Bryol. 36: 74. 1909.
Other use: *Leptodontium viticulosoides* var. *exasperatum* (Cardot) Zander, 1972.
L. flexifolium (Dickson ex Withering) Hampe in Lindberg, 1864.
L. flexifolium fo. *gemmipara* Frahm, Nova Hedwigia 24: 418. f. 3: 2. 1973 [1975].
Type: Germany. Schleswig-Holstein, *Jensen*, 1948. Holotype: KIEL.
L. geheebiaeopsis (C. Müller) Dixon, Rep. Brit. Bryol. Soc. 2: 192. 1930.
Basionym: *Barbula geheebiaeopsis* C. Müller, 1883.
Note: not in Index Muscorum.
L. integrifolium R. S. Williams, Bull. Torrey Bot. Club 43: 324. pl. 17: f. 1-7. 1916.
Other use: *Barbula integrifolia* (R. S. Williams) Zander, 1972.
L. longicaule Mitten, 1869.
L. longicaule var. *microruncinatum* (Dusén) Zander, Bryologist 75: 269. 1972.
Basionym: *Leptodontium microruncinatum* Dusén, 1906.
L. longicaule subsp. *stellatum* (Bridel) Sloover, Bull. Jard. Bot. Natl. Belgique 57: 444. 1987.
Basionym: *Dicranum stellatum* Bridel, 1819 [1818].

Leptodontium, continued.

L. microruncinatum Dusén, Ark. Bot. 6(8): 10. pl. 5: f. 1-3. 1906.
Other use: *Leptodontium longicaule* var. *microruncinatum* (Dusén) Zander, 1972.

L. paradoxum Stone & G. A. M. Scott, J. Bryol. 11: 701. f. 1-2: a-d. pl. 1. 1981 [1982].
Type: Australia. Victoria: Mt. Alexander, 744 m, *Stone 14550*. Holotype: MEL. Other indicated distribution: Australia (Australian Capital Territory, New South Wales, South Australia, Western Australia).

L. ramosum H. Crum & Richards, J. Bryol. 13: 194. f. 1. 1984.
Type: Costa Rica. San Jose: Cerro de la Muerte, Sierra de Talamanca, 3320 m, *Richards 6143*. Holotype: MICH; isotype: NMW.

L. setschwanicum Brotherus, Akad. Wiss. Wien Sitzungsber., Math.-Naturwiss. Kl., Abt. 1, 1, 131: 211. 1922.
Other use: *Barbula prionophylla* K. Saito, 1971.

L. stoloniferum Zander, Bryologist 75: 239. f. 62-67. 1972.
Type: Colombia. Cundinamarca: Paramo Choachi, *Lindig 2127 p.p.* Holotype: M.

L. sulphureum (C. Müller) Mitten, 1869.

L. sulphureum var. *flagellaceum* E. B. Bartram, Contr. U.S. Natl. Herb. 26: 75. f. 15. 1928.
Other use: *Leptodontium viticulosoides* var. *flagellaceum* (E. B. Bartram) Zander, 1972.

L. sulphureum var. *panamense* Lorentz, Moosstudien 161. 1864.
Other use: *Leptodontium viticulosoides* var. *panamense* (Lorentz) Zander, 1972.

L. tricolor (R. S. Williams) Zander in Zander & E. Hegewald, Bryologist 79: 20. 1976.
Basionym: *Syrrhopodon tricolor* R. S. Williams, 1903.

L. valerianum E. B. Bartram, J. Wash. Acad. Sci. 19: 18. f. 2: a-i. 1929.
Other use: *Gymnostomum valerianum* (E. B. Bartram) Zander, 1972, *Tuerckheimia valeriana* (E. B. Bartram) Zander, 1978.

L. viticulosoides (Palisot de Beauvois) Wijk & Margadant, 1960.

L. viticulosoides var. *exasperatum* (Cardot) Zander, Bryologist 75: 254. 1972.
Basionym: *Leptodontium exasperatum* Cardot, 1909.

L. viticulosoides var. *flagellaceum* (E. B. Bartram) Zander, Bryologist 75: 255. 1972.
Basionym: *Leptodontium sulphureum* var. *flagellaceum* E. B. Bartram, 1928.

L. viticulosoides var. *panamense* (Lorentz) Zander, Bryologist 75: 250. 1972.
Basionym: *Leptodontium sulphureum* var. *panamense* Lorentz, 1864.
Note: superfluous (Article 57.2), but correct in the sense of *L. viticulosoides* var. *sulphureum* (C. Müller) Zander.

Leptodontium, continued.

L. viticulosoides var. *sulphureum* (C. Müller) Zander, Bryologist 86: 156. 1983.
Basionym: *Trichostomum sulphureum* C. Müller, 1851.
Note: the basionym of a combination with final its epithet an autonym is the name from which that autonym was derived (Article 57.3Note 1); valid, error of bibliographic citation of basionym (Article 33.2), "*Trichostomum sulphureum* C. Muell. var. *sulphureum* Lor."

Leptohymenium Schwägrichen, 1828, rejected name (Article 69).

L. cristatum Hampe, Linnaea 30: 459. 1860.
Other use: *Isothecium cristatum* (Hampe) H. Robinson, 1962 [1963].

Leptopterigynandrum C. Müller, 1897.

L. autoicum Dixon ex Gangulee & Vohra in Gangulee, Mosses E. India 7: 1582. f. 790. 1978, "*Leptopterygynandrum.*"
Type: China. Southeastern Tibet, Molo, Kongbo Prov., 10,500 feet, *Ludlow, Sheriff & Taylor 4328*. Holotype: BM.

L. clavatum Buck & H. Crum in Buck, Bryologist 83: 460. f. 40-46. 1980 [1981].
Type: Bolivia. Rio Pelichuco, *Williams 2775a*. Holotype: F; isotype: MICH.

L. filiforme (Zhang Man-xiang) Stark & Buck, Brittonia 38: 52. 1986.
Basionym: *Forsstroemia filiformis* Zhang Man-xiang, 1980.

Leptostomum R. Brown, 1811, conserved name.

L. millerianum H. O. Whittier, Mosses Society Isl. 170. f. 45: k-m. 1976.
Type: Tahiti. Mt. Aorai, trail to One Tree Hill, 1500 m, *Whittier 2808*. Holotype: NY.

L. pusillum J. D. Hooker & Wilson, London J. Bot. 3: 154. 1844.
Other use: *Schizymenium pusillum* (J. D. Hooker & Wilson) A. J. Shaw, 1985.

L. squarrifolium E. B. Bartram, Svensk Bot. Tidskr. 47: 398. 1953.
Other use: *Racopilum squarrifolium* (E. B. Bartram) T. Koponen & Norris, 1985.

Leptotheca Schwägrichen, 1824.

L. gaudichaudii Schwägrichen, 1824.

L. gaudichaudii var. *wattsii* (Cardot) Churchill & Buck, Brittonia 34: 9. 1982.
Basionym: *Leptotheca wattsii* Cardot, 1908.

L. hamiltonii H. Crum, Contr. Univ. Michigan Herb. 16: 135. f. 1-7. 1987.
Type: Peru. Depto. San Martin: Dist. Pataz, valley of Rio Apisoncho, ca. 30 km E of Parcoy, *Hamilton & Holligan 42*. Holotype: MICH.

L. wattsii Cardot, Wiss. Erb. Schwed. Südpolar-Exp. 4(8): 146. f. 33. 1908.
Other use: *Leptotheca gaudichaudii* var. *wattsii* (Cardot) Churchill & Buck, 1982.

Lepyrodon Hampe, 1865.
L. duellii H. Crum, Bryologist 87: 207. f. 14-16. 1984.
Type: Mexico. Veracruz: Pass Porto de Aire, ca. 10 km von Acultzingo, 2300 m, *Duell 248*. Holotype: TENN; isotype: MICH.

Lescuraea Bruch & W. P. Schimper in B.S.G., 1851.
L. arizonae (R. S. Williams) P. Wilson & Norris, Bryologist 92: 395. 1989.
Basionym: *Pseudoleskea arizonae* R. S. Williams, 1930.
L. darjeelingensis Vohra, Bull. Bot. Surv. India 20: 150. pl. 1. 1978 [1979].
Type: India. Darjeeling, Tongloo, Batashi Road, 3060 m, *Wadhwa 166*. Holotype: CAL. Other indicated distribution: Bhutan.
L. filamentosa (Dickson ex Withering) Lindberg, 1879, "*Lesquereuxia*."
L. filamentosa var. *subnitidula* Lindberg in Brotherus & Saelan, Acta Soc. Fauna Fl. Fenn. 6(4): 91. 1890, "*Lesquereuxia*."
Other use: *Lescuraea incurvata* var. *subnitidula* (Lindberg in Brotherus & Saelan) Wijk & Margadant, 1968.
L. iliamniana E. Lawton, Bull. Torrey Bot. Club 84: 349. f. 108-118. 1957.
Other use: *Pseudoleskea iliamniana* (E. Lawton) H. Crum, Steere & L. E. Anderson, 1964.
L. incurvata (Hedwig) E. Lawton, 1957.
L. incurvata var. *gigantea* E. Lawton, Bull. Torrey Bot. Club 84: 294. f. 21-25. 1957.
Other use: *Pseudoleskea incurvata* var. *gigantea* (E. Lawton) H. Crum, Steere & L. E. Anderson, 1964.
L. incurvata var. *subnitidula* (Lindberg in Brotherus & Saelan) Wijk & Margadant, Taxon 17: 467. 1968.
Basionym: *Lescuraea filamentosa* var. *subnitidula* Lindberg in Brotherus & Saelan, 1890.
L. julacea Bescherelle & Cardot, Bull. Soc. Bot. Genève, ser. 2, 3: 284. 1911.
Other use: *Pseudoleskea julacea* (Bescherelle & Cardot) H. Crum, Steere & L. E. Anderson, 1973.
L. laevifolia (Mitten) R. S. Chopra, Bryologist 80: 544. 1977.
Basionym: *Leskea laevifolia* Mitten, 1859.
Note: invalid, basionym not cited (Article 33.2), in Taxon. Indian Mosses 421. 1975.
L. morrisonensis (Takaki) Noguchi & Takaki in Noguchi, Yushania 2: 23. 1985.
Basionym: *Pseudopleuropus morrisonensis* Takaki, 1955.
L. mutabilis (Bridel) Lindberg ex I. Hagen, 1909.
L. mutabilis var. *iwateana* (Iishiba) Iwatsuki & Noguchi, J. Jap. Bot. 48: 216. 1973.
Basionym: *Ishibaea japonica* var. *iwateana* Iishiba, 1932.
L. ramuligera (Mitten) R. S. Chopra, Bryologist 80: 544. 1977.
Basionym: *Leskea ramuligera* Mitten, 1859.
Note: invalid, basionym not cited (Article 33.2), in Taxon. Indian Mosses 421. 1975.

Lescuraea, continued.

L. robusta Lindberg, Contr. Fl. Crypt. As. [Acta Soc. Sci. Fenn. 10:] 245. 1872, "*Lesquereuxia*."

Other use: *Neolescuraea robusta* (Lindberg) Noguchi, 1972, *Rigodiadelphus robustus* (Lindberg) Noguchi, 1973.

**L. striata* (Schwägrichen) W. P. Schimper in B.S.G., 1851.

*illegitimate, type of earlier name included (Article 63.1).

L. striata var. *saxicola* W. P. Schimper in B.S.G., Bryol. Eur. fasc. 46-47. Monogr. 2. pl. 1: *β* (5: 103. pl. 459: *β*). 1851.

Other use: *Pseudoleskea saxicola* (W. P. Schimper in B.S.G.) H. Crum, Steere & L. E. Anderson, 1964.

Leskea Hedwig, 1801.

L. boliviana C. Müller ex Britton, Bull. Torrey Bot. Club 23: 497. 1896.

Other use: *Leskeadelphus bolivianus* (C. Müller ex Britton) Buck, 1980.

L. caespitosa Hedwig, Sp. Musc. Frond. 233. pl. 49: f. 1-5. 1801.

Other use: *Acroporium caespitosum* (Hedwig) Buck, 1983.

L. cyrtophylla Kindberg in Macoun, Cat. Canad. Pl., Musci 169. 1892.

Other use: *Leskeella tectorum* fo. *cyrtophylla* (Kindberg in Macoun) Flowers, 1973, *Pseudoleskeella tectorum* subsp. *cyrtophylla* (Kindberg in Macoun) Lewinsky, 1975, *Pseudoleskeella tectorum* var. *cyrtophylla* (Kindberg in Macoun) H. Crum, Steere & L. E. Anderson, 1964.

L. densa W. J. Hooker in Kunth, Syn. Pl. 1: 61. 1822.

Other use: *Platygyriella densa* (W. J. Hooker in Kunth) Buck, 1984.

L. depressa Hedwig, Sp. Musc. Frond. 215. pl. 53: f. 1-7. 1801.

Other use: *Schizomitrium depressum* (Hedwig) Buck & Steere, 1983.

L. falcata Dozy & Molkenboer, Ann. Sci. Nat. Bot., ser. 3, 2: 310. 1844.

Other use: *Pylaisiadelpha falcata* (Dozy & Molkenboer) Buck, 1984.

L. filiramea Brotherus & Paris, Rev. Bryol. 27: 78. 1900.

Other use: *Mielichhoferia filiramea* (Brotherus & Paris) A. J. Shaw & H. Crum, 1984.

L. hastata Mitten, J. Proc. Linn. Soc., Bot. 4: 93. 1859.

Replaced name: *Hypnum hastatum* C. Müller, 1851.

Blocking name: *Hypnum hastatum* Duby in Moritzi, 1846.

Other use: *Thuidium sparsum* var. *hastatum* (Mitten) Touw & Falter-van den Haak, 1989.

L. laevifolia Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 130. 1859.

Other use: *Lescuraea laevifolia* (Mitten) R. S. Chopra, 1977.

L. lagoensis (Hampe) Gier, J. Bryol. 10: 211. 1978, "*Leskae*."

Basionym: *Anomodon lagoensis* Hampe, 1870.

L. leucostega Bridel, Bryol. Univ. 2: 333. 1827.

Other use: *Entodontopsis leucostega* (Bridel) Buck & Ireland, 1985.

L. longirostris Bridel, Bryol. Univ. 2: 311. 1827, "*longirostra*."

Other use: *Acroporium longirostre* (Bridel) Buck, 1983.

Leskea, continued.

L. maritima W. J. Hooker, Musci Exot. 2: 166. 1819.
Other use: *Catagonium nitens* subsp. *maritimum* (W. J. Hooker) Lin Shan-Hsiung, 1984.

+*L. moravica* Pilous, Preslia 40: 72. f. 1. 1968.
Type: Czechoslovakia. Moravia: ad ripas fluvii Odra prope Jistebnik, *Kneblova s.n.* Holotype: herb. Pilous.

L. nervosa (Bridel) Myrin, 1834.

L. nervosa var. *sibirica* Arnold, Kongl. Svenska Vetensk. Acad. Handl. 23(10): 109. 1890.
Other use: *Pseudoleskeella nervosa* var. *sibirica* (Arnold) E. Lawton, 1971, *Pseudoleskeella sibirica* (Arnold) P. Wilson & Norris, 1989.

L. pulchella Hedwig, Sp. Musc. Frond. 220. pl. 55: f. 7-12. 1801.
Other use: *Isopterygiopsis pulchella* (Hedwig) Iwatsuki, 1987.

L. pusilla Mitten, Trans. Linn. Soc. London, Bot., ser. 2, 3: 188. 1891.
Other use: *Leskeella pusilla* (Mitten) Noguchi, 1972.

L. ramuligera Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 132. 1859.
Other use: *Lescuraea ramuligera* (Mitten) R. S. Chopra, 1977.

L. recurvans Michaux, Fl. Bor.-Amer. 2: 311. 1803.
Other use: *Pylaisiadelpha recurvans* (Michaux) Buck, 1984.

L. remotifolia C. Müller, Linnaea 19: 216. 1846.
Other use: *Meteoridium remotifolium* (C. Müller) Manuel, 1977.

L. rutilans Bridel, Bryol. Univ. 2: 332. 1827.
Other use: *Vesicularia vesicularis* var. *rutilans* (Bridel) Buck, 1984.

L. rutilans var. *portoricensis* Bridel, Bryol. Univ. 2: 332. 1827.
Other use: *Vesicularia vesicularis* var. *portoricensis* (Bridel) Buck, 1984.

L. seligeri Bridel, Muscol. Recent. 2(2): 47. 1801.
Other use: *Herzogiella seligeri* (Bridel) Iwatsuki, 1970, *Sharpiella seligeri* (Bridel) Iwatsuki, 1965.

L. striatella Bridel, Bryol. Univ. 2: 762. 1827.
Other use: *Herzogiella striatella* (Bridel) Iwatsuki, 1970, *Sharpiella striatella* (Bridel) Iwatsuki, 1965.

L. subtilis Hedwig, Sp. Musc. Frond. 221. 1801.
Other use: *Platydictya subtile* (Hedwig) H. Crum, 1964.

L. tectorum (Funck ex Bridel) Lindberg, 1865.

L. tectorum var. *flagellifera* Best, Bull. Torrey Bot. Club 30: 479. 1903.
Other use: *Leskeella tectorum* fo. *flagellifera* (Best) Flowers, 1973.

L. tenuirostris Bruch & W. P. Schimper in Sullivant in A. Gray, Manual 668. 1848.
Other use: *Pylaisiadelpha tenuirostris* (Bruch & W. P. Schimper in Sullivant in A. Gray) Buck, 1984.

L. undata Hedwig, Sp. Musc. Frond. 214. pl. 52: f. 7-12. 1801.
Other use: *Thamniopsis undata* (Hedwig) Buck, 1987.

Leskea, continued.

L. williamsii Best, Bull. Torrey Bot. Club 30: 476. pl. 16: f. 55-68. 1903, "*williamsi*."

Other use: *Pseudoleskeella williamsii* (Best) H. Crum, Steere & L. E. Anderson, 1964.

L. williamsii var. *filamentosa* Best, Bull. Torrey Bot. Club 30: 477. 1903.

Other use: *Pseudoleskeella williamsii* var. *filamentosa* (Best) H. Crum, Steere & L. E. Anderson, 1964.

Leskeadelphus Herzog, 1916.

L. bolivianus (C. Müller ex Britton) Buck, J. Hattori Bot. Lab. 47: 54. 1980.

Basionym: *Leskea boliviana* C. Müller ex Britton, 1896.

Leskeella (Limpricht) Loeske, 1903.

L. arizonae (R. S. Williams) Flowers, Bryologist 76: 290. 1973.

Basionym: *Pseudoleskea arizonae* R. S. Williams, 1930.

L. arizonae fo. *flagellifera* Flowers, Bryologist 76: 290. 1973.

Type: U.S.A. Utah: San Juan Co., Elk Ridge, near Gooseberry Ranger Station, 8600 feet, *Flowers 8362*. Holotype: UT.

L. pusilla (Mitten) Noguchi, J. Hattori Bot. Lab. 36: 506. 1972.

Basionym: *Leskea pusilla* Mitten, 1891.

L. tectorum (Funck ex Bridel) I. Hagen, 1909.

L. tectorum fo. *cyrtophylla* (Kindberg in Macoun) Flowers, Bryologist 76: 291. 1973.

Basionym: *Leskea cyrtophylla* Kindberg in Macoun, 1892.

L. tectorum fo. *flagellifera* (Best) Flowers, Bryologist 76: 291. 1973.

Basionym: *Leskea tectorum* var. *flagellifera* Best, 1903.

Leskeodon Brotherus in Engler & Prantl, 1907.

L. acuminatus (Bosch & Sande Lacoste) Fleischer, 1908.

L. acuminatus var. *laevisetus* Zanten, Nova Guinea, Bot. 10(16): 310. pl. 27: f. 2. 1964, "*laeviseta*."

Type: Indonesia [New Guinea]. Irian Barat: Mt. Antares, Camp 39a, 1500 m, *Zanten 438g*. Holotype: L; isotype: GRO.

L. mniifolius (Hornschuch) Bizot in Bizot & Pócs, Egri Ho Si Minh Tanárképzö Föiskola Füzetei 12: 436. 1974, "*mniifolium*."

Basionym: *Hookeria mniifolia* Hornschuch, 1841.

L. paisa Churchill in Sastré-de Jesús, Churchill & Escobar A., Actual. Biol. 15: 88. f. 11. 1986.

Type: Colombia. Antioquia: municipio de Sonson, 9.5 km E de Sonson hacia Narino y Argelia, 2660 m, *Churchill & Sastre-d. J. 12945*. Holotype: HUA; isotypes: COL, MO, NY, U.

L. ponapensis H. A. Miller, Phytologia 40: 257. f. 1. 1978.

Type: Caroline Islands. Ponape: Mt. Kubursoh, 1000-1500 feet, *Miller 6429*. Holotype: BM.

Leskeodontopsis Zanten, Nova Guinea, Bot. 16: 311. 1964.
Type: *L. pustulata* Zanten, holotype.
Original placement: Hookeriaceae.
L. pustulata Zanten, Nova Guinea, Bot. 10(16): 311. pl. 27: f. 3. 1964.
Type: Indonesia [New Guinea]. Irian Barat: Mt. Antares, Camp 39a, 1500 m, *Zanten 440a*. Holotype: L; isotype: GRO.

***Lesquereuxia** Lindberg, 1872.
*invalid, orthographic variant (Article 75.1).
Correct name: *Lescuraea* Bruch & W. P. Schimper in B.S.G., 1851.

Leucobryum Hampe, 1839.
L. antarense Zanten, Nova Guinea, Bot. 10(16): 276. pl. 23: f. 4; pl. 35: f. 4. 1964.
Type: Indonesia [New Guinea]. Irian Barat: Mt. Antares, Camp 39a, 1500 m, *Zanten 716*. Holotype: L; isotype: GRO.
L. byssaceum C. Müller ex A. Johnson, Gard. Bull. Singapore 20: 334. f. 8: c, 9: h. 1964.
Type: Papua New Guinea. Mt. Mo-roka, 1300 m, *Müller 703*. Holotype: BM.
Note: invalid, no description (Article 41.3), in C. Müller in Paris, Index Bryol. Suppl. 228. 1900.
L. candidum (Bridel ex Palisot de Beauvois) Wilson in J. D. Hooker, 1854.
L. candidum var. *angustifolium* (Cardot & Thériot in Thériot) H. A. Miller, H. O. Whittier & B. Whittier, Bryoph. Biblioth. 16: 175. 1978.
Basionym: *Leucobryum conocladon* var. *angustifolium* Cardot & Thériot in Thériot, 1910.
Note: valid, error of bibliographic citation of basionym (Article 33.2), "*L. conocladum* var. *angustifolium*."
L. candidum var. *brevifolium* (Cardot & Thériot in Thériot) H. A. Miller, H. O. Whittier & B. Whittier, Bryoph. Biblioth. 16: 176. 1978.
Basionym: *Leucobryum conocladon* var. *brevifolium* Cardot & Thériot in Thériot, 1910.
Note: valid, error of bibliographic citation of basionym (Article 33.2), "*L. conocladumum* var. *brevifolium*."
L. conocladon Bescherelle, 1873.
L. conocladon var. *angustifolium* Cardot & Thériot in Thériot, Diagn. Esp. Var. Nouv. Mouss. 8: 2. 1910.
Other use: *Leucobryum candidum* var. *angustifolium* (Cardot & Thériot in Thériot) H. A. Miller, H. O. Whittier & B. Whittier, 1978.
L. conocladon var. *brevifolium* Cardot & Thériot in Thériot, Diagn. Esp. Var. Nouv. Mouss. 8: 2. 1910.
Other use: *Leucobryum candidum* var. *brevifolium* (Cardot & Thériot in Thériot) H. A. Miller, H. O. Whittier & B. Whittier, 1978.
L. conocladon var. *repens* Bescherelle, Ann. Sci. Nat. Bot., ser. 5, 18: 202. 1873.
Other use: *Leucobryum stenophyllum* var. *repens* (Bescherelle) H. A. Miller, H. O. Whittier & B. Whittier, 1978.

Leucobryum, continued.

L. glaucum (Hedwig) Ångström in Fries, 1846.

L. glaucum var. *pulcherrimum* Savicz-Ljubitskaya, Bot. Mater. Inst. Sporov. Rast. Glavn. Bot. Sada RSFSR 1: 59. 1922.

Replaced name: *Leucobryum glaucum* var. *gracile* Ljubitskaya, 1914.

Blocking name: *Leucobryum glaucum* fo. *gracile* H. Winter, 1910.

Other use: *Leucobryum juniperoideum* var. *pulcherrimum* (Savicz-Ljubitskaya) Savicz-Ljubitskaya, 1969 [1970].

L. juniperoideum (Bridel) C. Müller, 1845.

L. juniperoideum var. *pulcherrimum* (Savicz-Ljubitskaya) Savicz-Ljubitskaya, Novosti Sist. Niz. Rast. 6: 247. 1969 [1970].

Basionym: *Leucobryum glaucum* var. *pulcherrimum* Savicz-Ljubitskaya, 1922.

L. laevifolium Brotherus, Trans. Linn. Soc. London, Bot., ser. 2, 6: 90. 1901.

Other use: *Holomitriopsis laevifolia* (Brotherus) H. Robinson, 1965.

L. microleucophanoides Dixon ex A. Johnson, Gard. Bull. Straits Settlem. 20: 333. f. 9: m, 12. 1964.

Type: Malaysia [Malay Peninsula]. Kedah: Inchang Estate, *Spare 2941*. Herbarium not specified by author. Paratypes cited.

L. papuense Paris, 1896.

L. papuense var. *pendulum* Zanten, Nova Guinea, Bot. 10(16): 275. 1964.

Type: Indonesia [New Guinea]. Irian Barat: Mt. Antares, Camp 40, 2400 m, *Zanten 621*. Holotype: L; isotype: GRO.

L. propaguliferum (Dixon) H. Robinson, Bryologist 68: 91. 1965.

Basionym: *Ochrobryum propaguliferum* Dixon, 1938.

L. stenophyllum Bescherelle, 1873.

L. stenophyllum var. *repens* (Bescherelle) H. A. Miller, H. O. Whittier & B. Whittier, Bryoph. Biblioth. 16: 180. 1978.

Basionym: *Leucobryum conocladon* var. *repens* Bescherelle, 1873.

Leucodon Schwägrichen, 1816.

L. subgen. *Leucodontella* (Noguchi) Noguchi, J. Jap. Bot. 43: 459. 1968.

Basionym: *Leucodontella* Noguchi, 1947.

L. subgen. *Macrosporiella* (Dixon & Thériot) Noguchi, J. Jap. Bot. 43: 459. 1968.

Basionym: *Macrosporiella* Dixon & Thériot, 1936.

L. alpinus Akiyama, J. Hattori Bot. Lab. 65: 42. 1988.

Type: Japan [Honshu]. Nagano: Mt. Senjo, *Suzuki 1357*. Holotype: NICH. Paratypes cited.

L. brachypus Bridel, 1827.

L. brachypus var. *andrewsianus* H. Crum & L. E. Anderson, Bryologist 75: 101. 1972.

Type: U.S.A. New Jersey: Palisades, *Austin s.n.* (Musci Appalach. 260). Holotype: MICH.

Note: invalid, holotype not indicated (Article 37.1), in Bryologist 74: 373. 1971.

L. esquirolii Thériot, Monde Pl., ser. 2, 9: 22. 1907, "*esquiroli*."

Other use: *Felipponea esquirolii* (Thériot) Akiyama, 1988.

Leucodon, continued.

L. formosanus Akiyama, Bot. Mag. (Tokyo) 100: 322. f. 4. 1987.
Type: China. Taiwan: Nantou Co., Mt. Hohwan, 3000 m, *Akiyama 5763*. Holotype: KYO.

L. geniculatus Mitten, J. Linn. Soc., Bot. 12: 409. 1869.
Other use: *Henicodium geniculatum* (Mitten) Buck, 1989.

L. giganteus (Noguchi) Noguchi, J. Jap. Bot. 43: 459. 1968.
Basionym: *Macrosporiella gigantea* Noguchi, 1947.

L. giraldii C. Müller, 1896.

L. giraldii var. *jaegerinaceus* C. Müller, Nuovo Giorn. Bot. Ital., n.s., 5: 190. 1898.
Other use: *Leucodon jaegerinaceus* (C. Müller) Akiyama, 1988.

L. jaegerinaceus (C. Müller) Akiyama, J. Hattori Bot. Lab. 65: 33. 1988.
Basionym: *Leucodon giraldii* var. *jaegerinaceus* C. Müller, 1898.

L. lasioides C. Müller, Nuovo Giorn. Bot. Ital., n.s., 3: 113. 1896.
Other use: *Forsstroemia lasioides* (C. Müller) Noguchi, 1969.

L. noguchii Iwatsuki, Misc. Bryol. Lichenol. 6: 33. 1972.
Replaced name: *Leucodon scabrisetus* (Dixon & Thériot) Noguchi, 1968.
Blocking name: *Leucodon scabrisetus* Taylor, 1848.

L. pacificus W. P. Schimper ex Bescherelle, Ann. Sci. Nat. Bot., ser. 7, 20: 33. 1895.
Other use: *Eoleucodon pacificus* (W. P. Schimper ex Bescherelle) H. A. Miller & H. O. Whittier, 1978.

L. radicalis Zhang Man-xiang in Li Xing-jiang & Zhang Man-xiang, Acta Bot. Yunnan. 5: 386. f. 2. 1983.
Type: China. Shanxi: Chinling (Qin-Ling) Mts. Xi-Tai-Bai Mts., Shi Ta Zi, 2500 m, *Wei 6132*. Holotype: WUK; isotype: KUN.

L. rugosus W. J. Hooker, Musci Exot. 1: 20. 1818.
Other use: *Dicranoloma rugosum* (W. J. Hooker) B. H. Allen, 1986.

**L. scabrisetus* (Dixon & Thériot) Noguchi, J. Jap. Bot. 43: 459. 1968.
*illegitimate, later homonym (Article 64.1).
Basionym: *Macrosporiella scabriseta* Dixon & Thériot, 1936.
Earlier name: *Leucodon scabrisetus* Taylor, 1848.
Correct name: *Leucodon noguchii* Iwatsuki, 1972.

L. sciuroides (Hedwig) Schwägrichen, 1816.

L. sciuroides fo. *denticulatus* Tosco, Webbia 28: 296. 1973.
Type: Italy. Gran Paradiso, Parco Nazionale, Val di Cogne, da Sesoret per Nomenon, 1950 m, *Stefenell S.*, 1972. Holotype: herb. Tosco.

L. secundus (Harvey in W. J. Hooker) Mitten, 1859.

L. secundus var. *strictus* (Harvey in W. J. Hooker) Akiyama, J. Hattori Bot. Lab. 65: 60. 1988.
Basionym: *Sclerodontium strictum* Harvey in W. J. Hooker, 1837.

L. sohayakiensis Akiyama, J. Hattori Bot. Lab. 65: 44. f. 4: c, 9: c-e, 16: e, 24. 1988.
Type: Japan [Shikoku]. Kochi: Takaoka-gun, Mt. Yokogura, *Noguchi 33465*. Holotype: NICH. Paratypes cited.

Leucodon, continued.

L. sphaerocarpus Akiyama, Bot. Mag. (Tokyo) 100: 328. f. 2: e-h, 7. 1987.
Type: China. Taiwan: Taipei Co., *Iwamasa 7041*. Holotype: HIRO; isotype: KYO.

L. temperatus Akiyama, Bot. Mag. (Tokyo) 100: 330. f. 3: a-f, 8. 1987.
Type: China. Taiwan: Hualien Co., Tzuen, NW of Tentsiang, 2000 m, *Akiyama 5882*. Holotype: KYO.

L. thomsonii Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 124. 1859, "*thomsoni*."
Other use: *Forsstroemia thomsonii* (Mitten) Buck, 1980 [1981].

L. tibeticus Zhang Man-xiang, Acta Bot. Yunnan. 2: 483. f. 1-7. 1980.
Type: China. Xizang: Long-Zi Xian, Zhun-ba, Jie-bai, 3600 m, *Zang 1089*. Holotype: WUG; isotype: KUN.

Leucoloma Bridel, 1829, conserved name.

**L. birmense* C. Müller ex Tixier, Rev. Bryol. Lichénol. 38: 149. f. 1. 1971-72 [1972].
*invalid, single element not cited as holotype (Article 37.3).
Type: Thailand. Nakhon Ratchasima, Khau Khieo, 1300 m, *Tixier 404, 408*.

L. celebesiae Brotherus in Warburg, Monsunia 1: 43. 1899.
Other use: *Sclerodontium pallidum* subsp. *celebesiae* (Brotherus in Warburg) H. Crum, 1986.

L. clavinerve C. Müller in Brotherus, Oefers. Förh. Finska Vetensk.-Soc. 35: 367. 1893.
Other use: *Sclerodontium clavinerve* (C. Müller in Brotherus) H. Crum, 1986.

**L. crispatum* Tixier, Rev. Bryol. Lichénol. 31: 196. f. 2. 1962 [1963].
*invalid, single element not cited as holotype (Article 37.3).
Type: no element cited by author.

L. phumiengse Tixier, Rev. Bryol. Lichénol. 38: 151. f. 2. 1971-72 [1972], "*phumiengsis*."
Type: Thailand. Phitsanulok, Phu Mieng, 1300 m, *Tixier 1134*. Herbarium not specified by author.

Leucomium Mitten, 1868.

L. decolyi Brotherus ex Gangulee, Mosses E. India 6: 1528. f. 767. 1977.
Type: India. Darjeeling, Sepoyjhora, 7000 feet, *Decoly & Schaul s.n.* (Bryoth. Levier 2338). Holotype: H-Brotherus.

L. steerei B. H. Allen, Mem. New York Bot. Gard. 45: 674. f. 2-13. 1987.
Type: Venezuela. Bolivar: Chimanta Massif, southeast portion of Apacaratepui, 1700-1850 m, *Steyermark 75964a*. Holotype: FH. Other indicated distribution: Guyana.

Leucoperichaetium Magill, Fl. S. Africa, Bryophyta 271. 1981.
Type: *L. eremophilum* Magill, holotype.
Original placement: Grimmiaceae.

Leucoperichaetium, continued.
L. eremophilum Magill, Fl. S. Africa, Bryophyta, Mosses 1: 273. f. 81: 1-18. 1981 [1982].
Type: Namibia. Witpuetz, *Hardy 4864*. Holotype: PRE; isotypes: H, MO, NY, US.

Leucophanella (Bescherelle) Fleischer ex Cardot in Grandidier, 1915.
L. banksii (C. Müller) Fleischer, 1923.
L. banksii var. *compacta* (Thériot) H. A. Miller, H. O. Whittier & B. Whittier, Bryoph. Biblioth. 16: 182. 1978.
Basionym: *Syrrhopodon banksii* var. *compactus* Thériot, 1908.
L. involuta (Schwägrichen) H. A. Miller, H. O. Whittier & B. Whittier, Bryoph. Biblioth. 16: 183. 1978.
Basionym: *Syrrhopodon involutus* Schwägrichen, 1824.
L. subspiculosa (C. Müller) Schultze-Motel, Willdenowia 7: 364. 1974.
Basionym: *Syrrhopodon subspiculosus* C. Müller, 1874.

Leucophanes Bridel, 1827.
L. heterodictyon Onraedt, Bull. Jard. Bot. Natl. Belgique 46: 375. f. 17. 1976.
Type: Madagascar. Foret de Bongolava, 12 km O de Tsiroanomandidy, *Cremers 3428*. Holotype: herb. Onraedt; isotypes: BR, PC, herb. Bizot.
L. nicobaricum C. Müller in Gangulee, Mosses E. India 2: 438. f. 206. 1971.
Type: India. Andaman and Nicobar: Ketschal Island, *Kurz s.n.* Holotype: BM.

Levierella C. Müller, 1897.
L. densiramea Tixier, Rev. Bryol. Lichénol. 34: 159. f. 19. 1966.
Type: Vietnam. Vers le Kilometre 5 de la route de Chapa au col de Lo-Qui-Ho, 1600 m, *Petelot 107*. Herbarium not specified by author.

Limbella (Brotherus) E. B. Bartram, 1933.
L. bartlettii (H. Crum & Steere) Buck, Beih. Nova Hedwigia 90: 339. 1988.
Basionym: *Sciaromium bartlettii* H. Crum & Steere, 1959.
L. fryei (R. S. Williams) Ochyra, J. Hattori Bot. Lab. 61: 313. 1986.
Basionym: *Sciaromium fryei* R. S. Williams, 1933.

***Limnobium** W. P. Schimper in B.S.G., 1853.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Limnobium* Richard, 1811.
Correct name: *Hygrohypnum* Lindberg, 1872.
L. duriusculum De Notaris, Erb. Crittog. Ital., ser. 2, 204. 1869.
Other use: *Hygrohypnum duriusculum* (De Notaris) Jamieson, 1980.
L. eugyrium W. P. Schimper in B.S.G., Bryol. Eur. fasc. 62-64. Monogr. Suppl. 1. pl. suppl. 1 (6: 73. pl. 579). 1855.
Other use: *Pseudohygrohypnum eugyrium* (W. P. Schimper in B.S.G.) Kanda, 1976 [1977].

Lindbergia Kindberg, 1897.
L. brevifolia Gao Chien in Li Xing-jiang et al., Bryofl. Xizang 307. 1985.
Replaced name: *Lindbergia ovata* Gao Chien in Gao Chien, Zhang Man-xiang & Cao Tong, 1981.
Blocking name: *Lindbergia ovata* Thériot, 1928.
L. maritima Lewinsky, New Zealand J. Bot. 15: 193. f. 1. 1977.
Type: New Zealand. North Island: Piha, west of Auckland, seashore, *Lewinsky 74-431*. Holotype: C; isotypes: AKU, CHR, COLO, GRO, herb. Child.
**L. ovata* Gao Chien in Gao Chien, Zhang Man-xiang & Cao Tong, Acta Bot. Yunnan. 3: 399. f. 7: 13-20. 1981.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Lindbergia ovata* Thériot, 1928.
Correct name: *Lindbergia brevifolia* Gao Chien in Li Xing-jiang et al., 1985.
Type: China. Xizang: Districtus Yadong Xian 2940 m, *Chen 4978*. Holotype: IFP; isotype: KUN.

Loeskeobryum Fleischer ex Brotherus in Engler & Prantl, 1925.
L. cavifolium (Sande Lacoste) Fleischer ex Brotherus, 1925.
L. cavifolium fo. *elongatum* Reimers & Sakurai, Bot. Jahrb. Syst. 64: 559. 1931.
Other use: *Hylocomium brevirostre* fo. *elongatum* (Reimers & Sakurai) Iwatsuki & Noguchi, 1973.
L. cavifolium var. *longisetum* Sakurai, Bot. Mag. (Tokyo) 53: 66. 1939.
Other use: *Hylocomium brevirostre* fo. *longisetum* (Sakurai) Iwatsuki & Noguchi, 1973.
L. cavifolium fo. *vermiculare* Reimers & Sakurai, Bot. Jahrb. Syst. 64: 560. 1931.
Other use: *Hylocomium brevirostre* fo. *vermiculare* (Reimers & Sakurai) Iwatsuki & Noguchi, 1973.
L. giganteum (E. B. Bartram) Rohrer, J. Hattori Bot. Lab. 59: 251. 1985.
Basionym: *Hylocomium giganteum* E. B. Bartram, 1946.

Loeskypnum Paul, 1918.
L. wickesii (Grout) Tuomikoski, Ann. Bot. Fenn. 10: 216. 1973.
Basionym: *Calliergon wickesii* Grout, 1939.

Loiseaubryum Bizot, Rev. Bryol. Lichénol. 42: 850. f. 1-3. 1976.
Type: *L. ephemeroides* Bizot, holotype.
Original placement: Funariaceae.
L. ephemeroides Bizot, Rev. Bryol. Lichénol. 42: 850. f. 1-3. 1976.
Type: Chad. Au bord du Chari entre Mani et Dougia, *Loiseau s.n.* Holotype: herb. Bizot; isotype: herb. Loiseau.
L. nutans (Mitten) Fife, J. Hattori Bot. Lab. 58: 192. 1985.
Basionym: *Entosthodon nutans* Mitten, 1859.

Lopidium J. D. Hooker & Wilson in J. D. Hooker, 1854.
L. struthiopteris (Bridel) Fleischer, 1908.
L. struthiopteris var. *campenonii* (Renauld & Cardot in Renauld) Bizot in Bizot & Pócs, Acta Bot. Acad. Sci. Hung. 28: 43. 1982.
Basionym: *Hypopterygium campenonii* Renauld & Cardot in Renauld, 1891.

Lyellia R. Brown, 1819.
L. minor Xu Wen-xuan & Xiong Ruo-li, Acta Bot. Yunnan. 6: 181. f. 6. 1984.
Type: China. Xizang: Nyingchi Xian, Xejilha Shan, 4600 m, *Chen 356*. Holotype: YUKU.

Macgregorella E. B. Bartram, 1939.
M. indica (Brotherus) Buck, J. Hattori Bot. Lab. 47: 53. 1980.
Basionym: *Schwetschkea indica* Brotherus, 1899.

Macrocoma (Hornschuch ex C. Müller) Grout, 1944.
M. subgen. *Trachyphyllum* (Brotherus) Vitt, Bryologist 83: 433. 1980 [1981].
Basionym: *Macromitrium* subgen. *Trachyphyllum* Brotherus, 1902.
M. abyssinica (C. Müller) Vitt, Bryologist 83: 419. 1980 [1981].
Basionym: *Macromitrium abyssinicum* C. Müller, 1849.
M. brasiliensis (Mitten) Vitt, Bryologist 83: 409. 1980 [1981].
Basionym: *Macromitrium brasiliense* Mitten, 1869.
M. capillicaulis (C. Müller ex Brotherus) Vitt, Rev. Bryol. Lichénol. 39: 209. 1973, "*capillicaule*."
Basionym: *Macromitrium capillicaule* C. Müller ex Brotherus, 1902.
Note: redundant combination in Sehnem, Pesquisas, Bot. 32: 11. 1978.
M. chrysomitria (C. Müller) Sehnem, Pesquisas, Bot. 32: 13. 1978, "*chrysomitrium*."
Basionym: *Macromitrium chrysomitrium* C. Müller, 1898.
M. frigida (C. Müller) Vitt, Rev. Bryol. Lichénol. 39: 209. 1973, "*frigidum*."
Basionym: *Macromitrium frigidum* C. Müller, 1857.
M. gastonyi Norris & Vitt in Vitt, Rev. Bryol. Lichénol. 39: 209. f. 1-7, 20-23. 1973.
Type: Dominican Republic. La Vega: near summit of Pico Duarte, 3175 m, *Norris et al. 5840*. Holotype: ALTA; isotypes: FH, HSC, MICH, NY, US.
M. gracillima (Bescherelle) Vitt, Bryologist 83: 433. 1980 [1981].
Basionym: *Schlotheimia gracillima* Bescherelle, 1885.
M. intricata (C. Müller) H. A. Miller, H. O. Whittier & B. Whittier, Bryoph. Biblioth. 16: 187. 1978.
Basionym: *Macromitrium intricatum* C. Müller, 1896.
M. iwatsukii Vitt, Bryologist 83: 422. f. 153-163. 1980 [1981].
Type: Bhutan. Chamsa-Kohina-Yaber Thang, 3200-3700 m, *Tanaka*, 1967. Holotype: NICH; isotype: ALTA.
M. lycopodioides (Schwägrichen) Vitt, Rev. Bryol. Lichénol. 39: 219. 1973.
Basionym: *Macromitrium lycopodioides* Schwägrichen, 1827.

Macrocoma, continued.
M. papillosa (Thériot in Herzog) Vitt, Bryologist 83: 433. 1980 [1981].
Basionym: *Macromitrium papillosum* Thériot in Herzog, 1938.
M. pulchella (Hornschuch) Vitt, Rev. Bryol. Lichénol. 39: 219. 1973, "*pulchellum*."
Basionym: *Schlotheimia pulchella* Hornschuch, 1820.
M. pycnangia (C. Müller ex Brotherus) Sehnem, Pesquisas, Bot. 32: 12. 1978, "*pycnangium*."
Basionym: *Macromitrium pycnangium* C. Müller ex Brotherus, 1898.
Note: valid, error of bibliographic citation of basionym (Article 33.2), "Nat. Pflanzenfam. 1(3): 477. 1902."
M. scaberrima (Brotherus) Vitt, Bryologist 82: 16. 1979.
Basionym: *Anomodon scaberrimus* Brotherus, 1895.
M. tenuis (W. J. Hooker & Greville) Vitt, Rev. Bryol. Lichénol. 39: 217. 1973, "*tenue*."
Basionym: *Orthotrichum tenue* W. J. Hooker & Greville, 1824.
M. tenuis subsp. *sullivantii* (C. Müller) Vitt, Bryologist 83: 413. 1980 [1981], "*tenue*."
Basionym: *Macromitrium sullivantii* C. Müller, 1862.

Macrodictyum (Brotherus) E. Hegewald, Bryologist 81: 527. 1978 [1979].
Basionym: *Holomitrium* sect. *Macrodictyum* Brotherus, 1924.
M. proliferum (Mitten) E. Hegewald, Bryologist 81: 527. 1978 [1979].
Basionym: *Holomitrium proliferum* Mitten, 1869.
M. wrightii (Sullivant) E. Hegewald, Bryologist 81: 528. 1978 [1979].
Basionym: *Holomitrium wrightii* Sullivant, 1861.

Macromitrium Bridel, 1819 [1818].
M. subgen. *Trachyphyllum* Brotherus, Nat. Pflanzenfam. 1(3): 478. 1902.
Other use: *Macrocoma* subgen. *Trachyphyllum* (Brotherus) Vitt, 1980 [1981].
M. abyssinicum C. Müller, Syn. Musc. Frond. 1: 722. 1849.
Other use: *Macrocoma abyssinica* (C. Müller) Vitt, 1980 [1981].
**M. bescherellei* H. O. Whittier & B. Whittier, Bryologist 77: 435. 1974.
*illegitimate, type of earlier name included (Article 63.1).
Replaced name: *Macromitrium tahitense* Brotherus, 1903.
Blocking name: *Macromitrium tahitense* Nadeaud, 1873.
Correct name: *Macromitrium tahitisecundum* Margadant, 1972.
M. brasiliense Mitten, J. Linn. Soc., Bot. 12: 197. 1869.
Other use: *Macrocoma brasiliensis* (Mitten) Vitt, 1980 [1981].
**M. brevirameum* E. B. Bartram, Contr. U.S. Natl. Herb. 37: 54. 1965.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Macromitrium brevirameum* E. B. Bartram, 1962.
Type: Papua New Guinea. Mt. Otto, 2000 m, *Brass 31117*. Holotype: US. Paratype cited.

Macromitrium, continued.

M. capillicaule C. Müller ex Brotherus, Nat. Pflanzenfam. 1(3): 477. f. 327. 1902.
Other use: *Macrocoma capillicaulis* (C. Müller ex Brotherus) Vitt, 1973.

M. chimborazense Spruce ex Mitten, J. Linn. Soc., Bot. 12: 218. 1869.
Other use: *Groutiella chimborazensis* (Spruce ex Mitten) Florschütz, 1964.

M. chrysomitrium C. Müller, Bull. Herb. Boissier 6: 101. 1898.
Other use: *Macrocoma chrysomitria* (C. Müller) Sehnem, 1978.

M. crumianum Steere & Buck, Brittonia 31: 395. f. 1-7. 1979.
Type: Guatemala. Vicinity of Exmibal Camp 2 (La Gloria), NW of Lake Izabel, 400-500 m, *Jones & Facey 3296*. Holotype: NY; isotypes: ALTA, BM, C, F, FH, FLAS, H, MEXU, MICH, MO, S, TENN, U, US, USCG.

M. dielsii Brotherus ex Vitt & H. P. Ramsay, J. Hattori Bot. Lab. 59: 339. f. 4-21. 1985.
Type: Australia. Queensland: Bellenden Ker Range, Centre Peak area, *Vitt 27941*. Holotype: ALTA; isotype: NSW. Paratypes cited.

M. divortiarum Sehnem, Pesquisas, Bot. 32: 24. pl. 7: b (pp. 68-69). 1978.
Type: Brazil. Goias: Reserva das Aguas-Emendadas, 800-900 m, *Sehnem 8605*. Herbarium not specified by author.

M. drewii H. Robinson, Bryologist 70: 320. f. 21-24. 1967.
Type: Ecuador. Imbabra: Cordillera Oriental, Camp Sphagnum, 1 km W of Llanacocha, E of Volcan de Cayambe, 11,400 feet, *Drew E-399*. Holotype: US.

M. fortunatii Cardot & Thériot in Thériot, 1909, "*fortunati*."

M. fortunatii var. *nigrescens* Tixier, Rev. Bryol. Lichénol. 34: 140. f. 8. 1966.
Type: Vietnam. Chapa, *Petelot 141*. Herbarium not specified by author.

M. frigidum C. Müller, Bot. Zeitung (Berlin) 15: 179. 1857.
Other use: *Macrocoma frigida* (C. Müller) Vitt, 1973.

M. gimalacii Bizot & Onraedt in Onraedt, Bull. Jard. Bot. Natl. Belgique 46: 359. f. 7-8. 1976.
Type: Reunion. Cirque de Mafate, 1750 m, *Onraedt 74.R.8083*. Holotype: herb. Onraedt; isotypes: BR, herb. Bizot.

M. himalayanum Dixon, Anniv. Vol. Bot. Gard. Calcutta 181. 1942.
Original placement: subgen. *Macrocoma*.
Note: not in Index Muscorum.

M. hortoniae Vitt & H. P. Ramsay, J. Hattori Bot. Lab. 59: 367. f. 100-117. 1985.
Type: Australia. Queensland: Brisbane area, Lamington National Park, 25 km S of Canungra on road to O'Reilly's Guesthouse, *Vitt 28150*. Holotype: ALTA; isotypes: CANB, H, NSW, NY. Paratypes cited.

M. incrustatifolium H. Robinson, Bryologist 71: 90. f. 25-33. 1968.
Type: India. Assam: Lushai Hills, Hmuntha, 5000 feet, *Koelz 27473*. Holotype: US; isotype: MICH.

M. intricatum C. Müller, Flora 82: 452. 1896.
Other use: *Macrocoma intricata* (C. Müller) H. A. Miller, H. O. Whittier & B. Whittier, 1978.

Macromitrium, continued.

M. involutifolium (Hooker & Greville) Schwägrichen, 1827.

M. involutifolium subsp. *ptychomitrioides* (Bescherelle) Vitt & H. P. Ramsay, J. Hattori Bot. Lab. 59: 378. 1985.

Basionym: *Macromitrium ptychomitrioides* Bescherelle, 1873.

M. japonicum Dozy & Molkenboer, 1844.

M. japonicum var. *makinoi* (Brotherus) Noguchi, Ill. Moss Fl. Japan 3: 606. 1989.

Basionym: *Dasymitrium makinoi* Brotherus, 1899.

M. lomasense H. Robinson, Phytologia 21: 392. f. 9-12. 1971.

Type: Peru. La Libertad: Prov. Trujillo, Cerro Chiputur, 650 m, *Ayala 7124*. Holotype: US; isotype: HUT.

M. lycopodioides Schwägrichen, Sp. Musc. Frond., Suppl. 2 2 2: 141. pl. 193. 1827.

Other use: *Macrocoma lycopodioides* (Schwägrichen) Vitt, 1973.

M. obtusum Mitten, J. Linn. Soc., Bot. 12: 201. 1869.

Other use: *Groutiella obtusa* (Mitten) Florschütz, 1964.

M. onraedtii Bizot ex Onraedt, Bull. Jard. Bot. Natl. Belgique 46: 357. f. 6. 1976.

Type: Madagascar. Entre Foulpointe et Andondabe, au N de Tamatave, *Cremers 2165*. Holotype: herb. Onraedt; isotypes: BR, TAN, herb. Bizot.

Original placement: sect. *Goniostoma*.

Note: invalid, holotype not indicated (Article 37.1), in Bizot, Rev. Bryol. Lichénol 40: 123. pl. 14: a, c. 1974.

M. papillosum Thériot in Herzog, Arch. Esc. Farm. Fac. Ci. Méd. Córdoba 7: 50. 1938.

Other use: *Macrocoma papillosa* (Thériot in Herzog) Vitt, 1980 [1981].

**M. paraphysatum* Sehnem, Pesquisas, Bot. 32: 19. pl. 4: b (p. 62-63). 1978.

*illegitimate, later homonym (Article 64.1).

Earlier name: *Macromitrium paraphysatum* Mitten, 1869.

Type: Brazil. Rio Grande do Sul: Sao Francisco de Paula, prope urbem, 1000 m, *Sehnem 5370*. Herbarium not specified by author.

M. perreflexum Steere, Brittonia 34: 437. f. 1-10. 1982.

Type: Ecuador. Loja: Loma de Oro at Panamerican Hwy., 10 km S of Saraguro, 3300 m, *Steere & Balslev 25555*. Holotype: NY; isotype: "to be distributed."

M. petelotii Tixier, Rev. Bryol. Lichénol. 34: 140. f. 9. 1966.

Type: Vietnam. Chapa, 1500 m, *Petelot 138*. Herbarium not specified by author.

M. pseudoserrulatum E. B. Bartram, Rev. Bryol. Lichénol. 33: 326. 1964-65 [1965].

Type: Argentina. Tucuman: Estancia Los Pinos, La Mesada, 800 m, *Digilio & Grassi 8020*. Holotype: herb. Bartram.

M. ptychomitrioides Bescherelle, Ann. Sci. Nat. Bot., ser. 5, 18: 208. 1873.

Other use: *Macromitrium involutifolium* subsp. *ptychomitrioides* (Bescherelle) Vitt & H. P. Ramsay, 1985.

**M. pugionifolium* Brotherus in H. P. Ramsay, Taxon 29: 467. 1980.

*invalid, no Latin description (Article 36.1), not C. Müller (1898).

Macromitrium, continued.

M. pycnangium C. Müller ex Brotherus, Bull. Herb. Boissier 6: 102. 1898.
Other use: *Macrocoma pycnangia* (C. Müller ex Brotherus) Sehnem, 1978.

M. quinquefarium Hornschuch in C. Martius, Fl. Bras. 1(2): 26. 1840.
Other use: *Cardotiella quinquefaria* (Hornschuch in C. Martius) Vitt, 1981.

M. ramsayae Vitt, J. Hattori Bot. Lab. 54: 14. f. 17-24, 26-29. 1983.
Type: New Zealand. Chatham Island, *Gilpin*, 1942. Holotype: WELT.

**M. scaberrimum* Brotherus in H. P. Ramsay, Taxon 29: 467. 1980.
*invalid, no Latin description (Article 36.1).

M. schlotheimiaeforme Paris, Index Bryol. Suppl. 241. 1900.
Replaced name: *Macromitrium rugifolium* C. Müller, 1899.
Blocking name: *Macromitrium rugifolium* (W. J. Hooker) C. Müller, 1845.
Other use: *Cardotiella schlotheimiaeformis* (Paris) Vitt, 1981.

M. secundum C. Müller, Bot. Zeitung (Berlin) 14: 420. 1856.
Other use: *Cardotiella secunda* (C. Müller) Vitt, 1981.

M. sharpii H. Crum ex Vitt, Bryologist 82: 4. f. 10-20, 66. 1979.
Type: Mexico. Durango: 45 km W of El Salto, *Sharp 1859*. Holotype: ALTA; isotypes: MICH, TENN.

M. stoneae Vitt & H. P. Ramsay, J. Hattori Bot. Lab. 59: 400. f. 218-236. 1985.
Type: Australia. New South Wales: northwest of Wauchope, Plateau Beech Preserve, Mount Boss State Forest, 825 m, *Vitt 27483*. Holotype: ALTA; isotypes: BRI, C, CANB, FH, H, NSW, NY. Paratypes cited.

M. sulcatum (W. J. Hooker) Bridel, 1826.

M. sulcatum var. *torulosum* (Mitten) Tixier, Ceylon J. Sci., Biol. Ser., 11: 127. 1975.
Basionym: *Macromitrium torulosum* Mitten, 1859.

M. sullivantii C. Müller, Bot. Zeitung (Berlin) 20: 361. 1862.
Other use: *Macrocoma tenuis* subsp. *sullivantii* (C. Müller) Vitt, 1980 [1981].

**M. tahitense* Brotherus, Nat. Pflanzenfam. 1(3): 486. 1903.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Macromitrium tahitense* Nadeaud, 1873.
Replaced name: *Dasymitrium nadeaudii* Bescherelle, 1898.
Blocking name: *Macromitrium nadeaudii* Bescherelle, 1898.
Correct name: *Macromitrium tahitisecundum* Margadant, 1972.

M. tahitisecundum Margadant, Lindbergia 1: 128. 1972.
Replaced name: *Macromitrium tahitense* Brotherus, 1903.
Blocking name: *Macromitrium tahitense* Nadeaud, 1873.

M. torulosum Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 53. 1859.
Other use: *Macromitrium sulcatum* var. *torulosum* (Mitten) Tixier, 1975.

M. tumidulum Mitten, J. Linn. Soc., Bot. 12: 201. 1869.
Other use: *Groutiella tumidula* (Mitten) Vitt, 1979.

M. vesiculosum Tixier, Rev. Bryol. Lichénol. 34: 143. f. 10. 1966.
Type: Vietnam. Chapa, 1500 m, *Petelot 86*. Herbarium not specified by author.

M. wellingtonianum Vitt, J. Hattori Bot. Lab. 54: 61. f. 163-175, 177-178. 1983.
Type: New Zealand. North Island: Tararua Range, 60 km N of Wellington, 800 m, *Balazs NZ-S/I/J*. Holotype: ALTA; isotype: EGR.

Macrosporiella Dixon & Thériot, J. Jap. Bot. 74: 2. 1936.
Other use: *Leucodon* subgen. *Macrosporiella* (Dixon & Thériot) Noguchi, 1968.
M. gigantea Noguchi, J. Hattori Bot. Lab. 2: 48. f. 10. 1947.
Other use: *Leucodon giganteus* (Noguchi) Noguchi, 1968.
M. scabriseta Dixon & Thériot, J. Bot. 74: 2. pl. 2. 1936.
Other use: *Leucodon scabrisetus* (Dixon & Thériot) Noguchi, 1968.

Macrothamnium Fleischer, 1905.
M. subgen. *Leptocladiella* (Fleischer) Noguchi, Kumamoto J. Sci., Sect. 2, Biol. 11: 9. 1972.
Basionym: *Leptocladiella* Fleischer, 1923.
M. cuculatophyllum Gao Chien & Ao Zhi-wen, Bull. Bot. Lab. North-E. Forest. Inst. 7: 99. f. 3. 1980.
Type: China. Xizang: Sangngaqoiling, *Zang 1582*. Holotype: IFP.
M. delicatulum Brotherus, Symb. Sin. 4: 131. 1929.
Other use: *Leptocladiella delicatula* (Brotherus) Rohrer, 1985.
M. leptohymenioides Noguchi, Kumamoto J. Sci., Sect. 2, Biol. 11: 6. 1972.
Type: Nepal. Thakma-khola, Diorali Bhanjang, Bhanjang-Yamphodin, *Tokyo Univ. Exped. 237772*. Holotype: NICH.
M. macrocarpum (Reinwardt & Hornschuch) Fleischer, 1905.
M. macrocarpum var. *breviacutum* Tixier, Rev. Bryol. Lichénol. 34: 176. f. 30. 1966.
Type: Vietnam. Chapa, 1500 m, *Petelot 17*. Herbarium not specified by author.
M. psilurum (Mitten) Noguchi, Kumamoto J. Sci., Sect. 2, Biol. 11: 10. 1972.
Basionym: *Stereodon psilurus* Mitten, 1859.

Mahua Buck, Brittonia 35: 254. 1983.
Type: *M. enervis* Buck, holotype.
Original placement: Sematophyllaceae.
M. enervis Buck, Brittonia 35: 254. 1983.
Replaced name: *Fabronia enervis* Herzog, 1960.
Blocking name: *Fabronia enervis* Brotherus, 1924.
Note: new name, based on adoption of earlier epithet (Article 72.Note 1).

Maireola Thériot & Trabut, 1927.
M. atlantica Thériot & Trabut, Arch. Bot. Bull. Mens. 1(3): 47. 1927.
Other use: *Ditrichum atlanticum* (Thériot & Trabut) Frahm & Seppelt, 1987.

Mastopoma Cardot, 1901.
M. loriforme Zanten, Nova Guinea, Bot. 10(16): 323. pl. 28: f. 3. 1964.
Type: Indonesia [New Guinea]. Irian Barat: Mt. Antares, Camp 40, 2400 m, *Zanten 616*. Holotype: L; isotype: GRO.

Mastopoma, continued.

M. parvidentatum Norris & T. Koponen, Ann. Bot. Fenn. 22: 382. f. 7. 1985.
Type: Papua New Guinea. West Sepik: Frieda River, Mt. Hartley, 8 km N of Frieda Base Camp, 1350 m, *Koponen 35432*. Holotype: H; isotypes: HSC, LAE. Paratypes cited.

M. perundulatum (Dixon) Horikawa & Ando in Kira & Umesao, Nat. & Life Southe. Asia 3: 34. 1964.
Basionym: *Trismegistia perundulata* Dixon, 1937.

M. subfiliferum Horikawa & Ando in Kira & Umesao, Nat. & Life Southe. Asia 3: 36. f. 8. 1964.
Type: Thailand. Doi Inthanon, *Yoda 67764*. Holotype: HIRO.

Meesia Hedwig, 1801, conserved name.

**M. trifaria* H. Crum, Steere & L. E. Anderson, Bryologist 68: 434. 1965 [1966].
*illegitimate, type of earlier name included (Article 63.1).
Correct name: *Meesia triquetra* (H. Richter) Ångström, 1844.

M. trifaria fo. *crassifolia* (Kabiersch) Smirnova, Novosti Sist. Niz. Rast. 6: 255. 1969 [1970].
Basionym: *Meesia triquetra* fo. *crassifolia* Kabiersch, 1937.

M. trifaria fo. *gigantea* (Sanio) Smirnova, Novosti Sist. Niz. Rast. 6: 255. 1969 [1970].
Basionym: *Meesia triquetra* var. *gigantea* Sanio, 1887.

M. trifaria fo. *timmioides* (Sanio) Smirnova, Novosti Sist. Niz. Rast. 6: 255. 1969 [1970].
Basionym: *Meesia triquetra* var. *timmioides* Sanio, 1887.

M. triquetra (H. Richter) Ångström, 1844.

M. triquetra fo. *crassifolia* Kabiersch, Hedwigia 77: 133. 1937.
Other use: *Meesia trifaria* fo. *crassifolia* (Kabiersch) Smirnova, 1969 [1970].

M. triquetra var. *gigantea* Sanio, Hedwigia 26: 103. 1887.
Other use: *Meesia trifaria* fo. *gigantea* (Sanio) Smirnova, 1969 [1970].

M. triquetra var. *timmioides* Sanio, Hedwigia 26: 102. 1887.
Other use: *Meesia trifaria* fo. *timmioides* (Sanio) Smirnova, 1969 [1970].

Meiotheciopsis Brotherus, 1908.

M. asiatica Tixier, Rev. Bryol. Lichénol. 43: 433. f. 14: 1. 1977, "*asiaticum*."
Type: Vietnam. Tuyen Duc, Mt. Lang Bian, 1900 m, *Tixier 307*. Holotype: PC.

M. burmensis Tixier, Rev. Bryol. Lichénol. 43: 434. f. 15. 1977, "*burmense*."
Type: Burma. Route Taunggyi-Hopone, 1000 m, *Tixier 5947*. Holotype: herb. Tixier.

M. commutata (C. Müller) Buck, Contr. Univ. Michigan Herb. 15: 138. 1982.
Basionym: *Neckera commutata* C. Müller, 1857.

M. lageniferа (Mitten) Buck, Contr. Univ. Michigan Herb. 15: 139. 1982.
Basionym: *Meiothecium lageniferum* Mitten, 1869.

M. laxiuscula (Cardot) Buck, Contr. Univ. Michigan Herb. 15: 138. 1982.
Basionym: *Pterogoniella laxiuscula* Cardot, 1909.

Meiotheciopsis, continued.

M. longidens (Ångström) Buck, Contr. Univ. Michigan Herb. 15: 138. 1982.
Basionym: *Potamium longidens* Ångström, 1876.

M. usambarica (Brotherus ex Paris) Buck, Contr. Univ. Michigan Herb. 15: 138. 1982.
Basionym: *Pterogoniella usambarica* Brotherus ex Paris, 1898.

Meiothecium Mitten, 1868.

M. andinum Mitten, J. Linn. Soc., Bot. 12: 470. 1869.
Other use: *Sematophyllum mittenianum* Buck, 1982.

M. fabronia Bescherelle, J. Bot. (Morot) 5: 343. 1891.
Other use: *Sematophyllum fabronia* (Bescherelle) Buck, 1982.

M. guineense (Brotherus & Paris) Schultze-Motel, Willdenowia 7: 517. 1975.
Basionym: *Pterogoniella guineensis* Brotherus & Paris, 1904.

M. lageniferum Mitten, J. Linn. Soc., Bot. 12: 470. 1869.
Other use: *Donnellia lagenifera* (Mitten) Buck, 1988, *Meiotheciopsis lagenifera* (Mitten) Buck, 1982.

M. negrense Spruce ex Mitten, J. Linn. Soc., Bot. 12: 471. 1869.
Other use: *Sematophyllum negrense* (Spruce ex Mitten) Buck, 1982.

M. pendulum Zanten, Nova Guinea, Bot. 10(16): 328. pl. 29: f. 4. 1964.
Type: Indonesia [New Guinea]. Irian Barat: Mt. Antares, Camp 39a, 1500 m, *Zanten 472*. Holotype: L; isotype: GRO.

M. prunicola Tixier, Rev. Bryol. Lichénol. 37: 751. f. 14. 1970 [1971].
Type: Vietnam. Tuyen Duc, Dalat, 1500 m, *Tixier 269*. Herbarium not specified by author.

M. submicrotheca (C. Müller) H. A. Miller, H. O. Whittier & B. Whittier, Bryoph. Biblioth. 16: 198. 1978.
Basionym: *Hypnum submicrotheca* C. Müller, 1857.

Melophyllum Herzog, 1939.

M. radiculosum Herzog, Feddes Repert. Spec. Nov. Regni Veg. 47: 100. f. a-h. 1939.
Other use: *Astomiopsis radiculosa* (Herzog) Buck & Zander, 1980, *Bryomanginia radiculosa* (Herzog) Zander, 1978.

+**Merceria** Smoot & T. N. Taylor, Amer. J. Bot. 73: 1684. 1986.
Type: *M. augustica* Smoot & T. N. Taylor, holotype.
Original placement: not indicated by authors.

+*M. augustica* Smoot & T. N. Taylor, Amer. J. Bot. 73: 1684. f. 2-15. 1986.
Type: Antarctica. Skaar Ridge, SE of Mt. Augusta, 84°47' S, 163°15' E; Buckley Formation, Beacon Supergroup, Late Permian, *Specimen 451 D*. Holotype: Orton Mus. Geol., Ohio St. Univ.

Merceya W. P. Schimper, 1876.
M. difficilis Herzog & Thériot, Repert. Spec. Nov. Regni Veg. 45: 46. 1938.
Note: cited as invalid, no Latin description (Article 36.1), and attributed to Noguchi, "Kumamoto J. Sc. B 2, 2: 246. 2 f. 1-4. 1956," in Index Muscorum.
M. latifolia Kindberg, Bull. Torrey Bot. Club 16: 94. 1889.
Other use: *Crumia latifolia* (Kindberg) Schofield, 1966.

Merceyopsis Brotherus & Dixon in Dixon, 1910.
M. angulosa Brotherus & Dixon, J. Bot. 48: 302. f. 8. 1910.
Other use: *Ganguleea angulosa* (Brotherus & Dixon) Zander, 1989.

Mesonodon Hampe, 1865.
M. flavescens (W. J. Hooker) Buck, J. Hattori Bot. Lab. 48: 117. 1980.
Basionym: *Pterogonium flavescens* W. J. Hooker, 1820.
M. regnellianus (C. Müller) Buck, J. Hattori Bot. Lab. 48: 117. 1980.
Basionym: *Neckera regnelliana* C. Müller, 1851 [1850].
M. regnellianus var. *lepyrodontoides* (C. Müller) Buck, J. Hattori Bot. Lab. 48: 117. 1980.
Basionym: *Entodon lepyrodontoides* C. Müller, 1901.

Metadistichophyllum Noguchi & Iwatsuki, J. Hattori Bot. Lab. 36: 482. 1972.
Type: *Distichophyllidium rhizophorum* Fleischer, *M. rhizophorum* (Fleischer) Noguchi & Iwatsuki, holotype.
Original placement: Hookeriaceae.
M. rhizophorum (Fleischer) Noguchi & Iwatsuki, J. Hattori Bot. Lab. 36: 483. 1972.
Basionym: *Distichophyllidium rhizophorum* Fleischer, 1908.

Metaneckera Steere, Bryologist 70: 344. 1967.
Replaced name: *Neckeradelphus* Steere, 1941 [December].
Blocking name: *Neckeradelphus* Lazarenko, 1941 [March].
M. menziesii (W. J. Hooker in Drummond) Steere, Bryologist 70: 344. 1967.
Basionym: *Neckera menziesii* W. J. Hooker in Drummond, 1828.

Metarhacocarpus Noguchi, J. Hattori Bot. Lab. 58: 87. 1985.
Type: *M. novocaledonicus* Noguchi, holotype.
Original placement: Hedwigiaceae.
M. novocaledonicus Noguchi, J. Hattori Bot. Lab. 58: 87. f. 1: 1-f. 1985.
Type: New Caledonia. Mont Mandjelia, W of Pouebo, *Iwatsuki 16271*.
Holotype: NICH.

Meteoridium (C. Müller) Manuel, Lindbergia 4: 47. 1977.
Basionym: *Neckera* subsect. *Meteoridium* C. Müller, 1851.
M. remotifolium (C. Müller) Manuel, Lindbergia 4: 49. 1977.
Basionym: *Leskea remotifolia* C. Müller, 1846.

Meteoriopsis Fleischer ex Brotherus in Engler & Prantl, 1906.

M. conanensis Gao Chien in Gao Chien & Chang Kung-chu, Acta Phytotax. Sin. 17: 116. f. 2: 8-31. 1979.
Type: China. Xizang: Cona Xian, 2450 m, *Ecol. Off. Tibet Sect. M.7404.* Holotype: IFP.

M. formosana Noguchi, J. Hattori Bot. Lab. 3: 92. f. 40. 1948.
Other use: *Meteoriopsis reclinata* var. *formosana* (Noguchi) Noguchi, 1976.

M. javensis Fleischer, Musci Buitenzorg 3: 841. 1907 [1908].
Other use: *Aerobryum javense* (Fleischer) Manuel, 1977.

M. novoguinensis Noguchi, J. Hattori Bot. Lab. 61: 259. f. 2: e-j. 1986.
Type: Papua New Guinea. Mt. Susu overlooking Bulolo, 1000 m, *Shea 6425.* Holotype: NICH. Paratypes cited.

M. reclinata (C. Müller) Fleischer in Brotherus, 1906.

M. reclinata var. *ancistrodes* (Renauld & Cardot) Noguchi, J. Hattori Bot. Lab. 41: 338. 1976.
Basionym: *Meteorium ancistrodes* Renauld & Cardot, 1895 [1896].

M. reclinata var. *formosana* (Noguchi) Noguchi, J. Hattori Bot. Lab. 41: 338. 1976.
Basionym: *Meteoriopsis formosana* Noguchi, 1948.

M. squarrosa (Hooker) Fleischer in Brotherus, 1906.

M. squarrosa var. *longicuspis* Noguchi, J. Hattori Bot. Lab. 41: 334. f. 44: i-r. 1976.
Type: Nepal. Shewaden-Papung, 2000-2600 m, *Iwatsuki 2058.* Holotype: NICH. Other indicated distribution: India, Sri Lanka, Thailand.

M. squarrosa var. *pilifera* Lou Jian-shing, Acta Phytotax. Sin. 21: 228. f. 1: 7-9. 1983.
Type: China. Xizang: Medog, Bei Beng, 800 m, *Chen 4767.* Holotype: KUN; isotype: PE.

Meteorium (Bridel) Dozy & Molkenboer, 1848.

M. ancistrodes Renauld & Cardot, Bull. Soc. Roy. Bot. Belgique 34(2): 72. 1895 [1896].
Other use: *Meteoriopsis reclinata* var. *ancistrodes* (Renauld & Cardot) Noguchi, 1976, *Pseudobarbella ancistrodes* (Renauld & Cardot) Manuel, 1977 [1978].

M. aongstromii Manuel, Bryologist 80: 199. 1977.
Replaced name: *Meteorium henschenii* (C. Müller ex Ångström) Brotherus, 1906.
Blocking name: *Meteorium henschenii* C. Müller ex Ångström, 1876.

M. atrovariegatum Cardot & Thériot, Bull. Acad. Int. Géogr. Bot. 19: 20. 1909.
Other use: *Meteorium miquelianum* subsp. *atrovariegatum* (Cardot & Thériot) Noguchi, 1976.

M. attenuatum Thwaites & Mitten, J. Linn. Soc., Bot. 13: 316. 1873.
Other use: *Pseudobarbella attenuata* (Thwaites & Mitten) Noguchi, 1973.

Meteorium, continued.

M. buchananii (Bridel) Brotherus, 1906.

M. buchananii var. *cuspidatum* (S. Okamura) Noguchi, J. Hattori Bot. Lab. 41: 255. 1976.
Basionym: *Meteorium cuspidatum* S. Okamura, 1911.

M. buchananii subsp. *helminthocladulum* (Cardot) Noguchi, J. Hattori Bot. Lab. 41: 254. 1976.
Basionym: *Papillaria helminthocladula* Cardot, 1904.

M. buchananii fo. *polytrichum* (Dozy & Molkenboer) Gangulee, Mosses E. India 5: 1296. 1976.
Basionym: *Meteorium polytrichum* Dozy & Molkenboer, 1848.

M. ciliaphyllum Lou Jian-shing, Bull. Bot. Res. (Harbin) 9(3): 25. f. 1: 1-7. 1989.
Type: China. Yunnan: Gongaban, Songtashan, 1900 m, *Wei-zhi 8869*. Holotype: PE.

M. compressirameum Renauld & Cardot, Bull. Soc. Roy. Bot. Belgique 38(1): 27. 1900.
Other use: *Pseudobarbella compressiramea* (Renauld & Cardot) Noguchi, 1966.

M. cuspidatum S. Okamura, Bot. Mag. (Tokyo) 25: 143. f. 8. 1911.
Other use: *Meteorium buchananii* var. *cuspidatum* (S. Okamura) Noguchi, 1976.

M. divergens Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 87. 1859.
Other use: *Pterobryopsis divergens* (Mitten) Noguchi, 1965.

M. elatipapilla Lou Jian-shing, Bull. Bot. Res. (Harbin) 9(3): 27. f. 1: 8-12. 1989.
Type: China. Sichuan: Tianquan Angzhouhe, 1900 m, *Li Gian 1534*. Holotype: PE.

M. filiforme Noguchi, J. Hattori Bot. Lab. 61: 259. f. 2: a-d. 1986.
Type: Papua New Guinea. Mt. Kaindi, 2 miles W of Wau, 2000 m, *Shea 6664*. Holotype: NICH.

**M. henschenii* (C. Müller ex Ångström) Brotherus, Nat. Pflanzenfam. 1(3): 818. 1906.
*illegitimate, later homonym (Article 64.1).
Basionym: *Papillaria henschenii* C. Müller ex Ångström, 1876.
Earlier name: *Meteorium henschenii* C. Müller ex Ångström, 1876.
Correct name: *Meteorium aongstromii* Manuel, 1977.

M. horikawae Noguchi, J. Hattori Bot. Lab. 3: 60. f. 21. 1948.
Other use: *Meteorium subpolytrichum* subsp. *horikawae* (Noguchi) Noguchi, 1976.

M. illecebrum Sullivant, 1861.

M. illecebrum var. *latifolium* (Lindberg in C. Müller) Menzel in Schultze-Motel & Menzel, Beih. Nova Hedwigia 88: 56. 1987.
Basionym: *Neckera latifolia* Lindberg in C. Müller, 1859.

M. javanicum Bosch & Sande Lacoste, Bryol. Jav. 2: 88. pl. 203. 1863.
Other use: *Pseudobarbella javanica* (Bosch & Sande Lacoste) Noguchi in Iwatsuki & Noguchi, 1972.

Meteorium, continued.
M. latiphyllum Lou Jian-shing, Acta Phytotax. Sin. 21: 226. f. 2: 8-10. 1983.
Type: China. Xizang: Medog, 1000 m, *Lang 523*. Holotype: PE.
M. levieri Renauld & Cardot, Bull. Soc. Roy. Bot. Belgique 41(1): 78. 1902-03 [1905].
Other use: *Aerobryidium levieri* (Renauld & Cardot) Lin Shan-Hsiung, 1988.
M. miquelianum (C. Müller) Fleischer in Brotherus, 1906.
M. miquelianum subsp. *atrovariegatum* (Cardot & Thériot) Noguchi, J. Hattori Bot. Lab. 41: 260. 1976.
Basionym: *Meteorium atrovariegatum* Cardot & Thériot, 1909.
M. nitens J. D. Hooker & Wilson, Fl. Nov.-Zel. 2: 101. pl. 87: f. 7. 1854.
Other use: *Barbella nitens* (J. D. Hooker & Wilson) Noguchi, 1985.
M. polytrichum Dozy & Molkenboer, Musci Frond. Archip. Ind. Exsic. 6: 161. pl. 51-52: A. 1848.
Other use: *Meteorium buchananii* fo. *polytrichum* (Dozy & Molkenboer) Gangulee, 1976.
M. squamidioides Sehnem, Pesquisas, Bot. 34: 35. pl. 11: b. 1980.
Type: Brazil. Santa Catarina: Tijucas, Pinheiral, 700 m, *Sehnem 3244*. Herbarium not specified by author.
M. subpolytrichum (Bescherelle) Brotherus, 1906.
M. subpolytrichum subsp. *horikawae* (Noguchi) Noguchi, J. Hattori Bot. Lab. 41: 258. 1976.
Basionym: *Meteorium horikawae* Noguchi, 1948.

***Metzlerella** I. Hagen, 1915.
*illegitimate, type of earlier name included (Article 63.1).
Correct name: *Metzleria* W. P. Schimper ex Milde, 1869.
M. madagascariensis Thériot, Recueil Publ. Soc. Havraise Études Diverses 1925: 132. illustration. 1926.
Other use: *Atractylocarpus madagascariensis* (Thériot) Padberg & Frahm, 1985.

Micralsopsis Buck, Mem. New York Bot. Gard. 45: 525. 1987.
Type: *Leiodontium complanatum* Dixon, *M. complanata* (Dixon) Buck, holotype.
Original placement: Pterobryaceae.
M. complanata (Dixon) Buck, Mem. New York Bot. Gard. 45: 525. 1987.
Basionym: *Leiodontium complanatum* Dixon, 1937.

Microcampylopus (C. Müller) Fleischer, 1904.
M. curvisetus (Hampe) Giese & Frahm, Lindbergia 11: 116. 1986.
Basionym: *Aongstroemia curviseta* Hampe, 1865.
M. khasianus (Griffiths) Giese & Frahm, Lindbergia 11: 118. 1986.
Basionym: *Dicranum khasianum* Griffiths, 1842.

Microcampylopus, continued.
M. kouroussensis (Renauld & Paris) Richards & Clear, Trans. Brit. Bryol. Soc. 5: 306. 1967.
Basionym: *Campylopus kouroussensis* Renauld & Paris, 1903.
M. laevigatus (Thériot) Giese & Frahm, Lindbergia 11: 121. 1986, "*laevigatum*."
Basionym: *Campylopodium laevigatum* Thériot, 1926.

Microdus W. P. Schimper ex Bescherelle, 1872.
M. acutidentatus Tixier, Rev. Bryol. Lichénol. 34: 129. f: 2. 1966.
Type: Vietnam. Chapa, massif du Fan-Si-Pan, 1100 m, *Petelot 93*. Herbarium not specified by author.
M. glaucus (Bescherelle) Paris, 1905.
M. glaucus var. *minor* (Brotherus) H. A. Miller, H. O. Whittier & B. Whittier, Bryoph. Biblioth. 16: 201. 1978.
Basionym: *Dicranella glauca* var. *minor* Brotherus, 1906.
M. sumatranus (Dixon) A. Eddy, Handb. Malesian Mosses 1: 113. 1988.
Basionym: *Dicranella sumatrana* Dixon, 1932.

Micromitrium Austin, 1870.
M. austinii Sullivant in Austin, 1870, "*austini*."
M. austinii var. *floridanum* (Grout) Crosby, Bryologist 71: 115. 1968.
Basionym: *Nanomitrium austinii* var. *floridanum* Grout, 1935.
M. brisbanicum (Brotherus) Crosby, Bryologist 71: 115. 1968.
Basionym: *Archidium brisbanicum* Brotherus, 1893.
M. lacustre (C. Müller in Brotherus) Crosby, Bryologist 71: 115. 1968.
Basionym: *Ephemerum lacustre* C. Müller in Brotherus, 1895.
M. neocaledonicum (Thériot) Crosby, Bryologist 71: 116. 1968.
Basionym: *Ephemerum neocaledonicum* Thériot, 1909.
M. perexiguum (C. Müller) Crosby, Bryologist 71: 116. 1968.
Basionym: *Ephemerum perexiguum* C. Müller, 1900.
M. subaequinoctale (Brotherus) Crosby, Bryologist 71: 116. 1968.
Basionym: *Ephemerum subaequinoctale* Brotherus, 1906.
M. tenerum (Bruch & W. P. Schimper) Crosby, Bryologist 71: 116. 1968.
Basionym: *Phascum tenerum* Bruch & W. P. Schimper, 1836.
M. tenerum var. *longifolium* (Limpricht) Crosby, Bryologist 71: 116. 1968.
Basionym: *Nanomitrium tenerum* var. *longifolium* Limpricht, 1885.
M. tenerum var. *moravicum* (Podpera) Crosby, Bryologist 71: 116. 1968.
Basionym: *Nanomitrium moravicum* Podpera, 1921.
M. tenerum var. *nanum* (C. Douin) Crosby, Bryologist 71: 116. 1968.
Basionym: *Nanomitrium tenerum* var. *nanum* C. Douin, 1906.
M. thelephorothecum (Florschütz) Crosby, Bryologist 71: 116. 1968.
Basionym: *Nanomitrium thelephorothecum* Florschütz, 1964.
M. wrightii (C. Müller) Crosby, Bryologist 71: 116. 1968.
Basionym: *Ephemerum wrightii* C. Müller, 1882.

Micropoma Lindberg, 1871.
M. bukobensis Brotherus in Mildbraed, Wiss. Erg. Deut. Zentr.-Afr. Exped., Bot. 2: 151. pl. 13: f. 21. 1910, "*bukobense*."
Other use: *Physcomitrium bukobense* (Brotherus in Mildbraed) Fife, 1982.

***Microthamnium** Mitten, 1869.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Microthamnion* Naegeli ex Kutzing, 1849.
Correct name: *Mittenothamnium* Hennings, 1902.
M. bessonii Renauld & Cardot, Bull. Soc. Roy. Bot. Belgique 32(1): 111. 1893 [1894], "*bessoni*."
Other use: *Wijkia bessonii* (Renauld & Cardot) H. Crum, 1971.
M. cavifolium Dixon, J. Bot. 53: 21. 1915.
Other use: *Chryso-hypnum cavifolium* (Dixon) Ochyra & A. J. Sharp, 1988.
M. ctenidioides Dixon, Trans. Roy. Soc. South Africa 8: 217. pl. 12: 18. 1920.
Other use: *Mittenothamnium ctenidioides* (Dixon) Schelpe in Magill & Schelpe, 1979.
M. cygnicollum Dixon, J. Bot. 53: 21. 1915.
Other use: *Mittenothamnium cygnicollum* (Dixon) Wijk & Margadant, 1965.
M. laxulum E. B. Bartram, Contr. U.S. Natl. Herb. 26: 113. f. 39: f-j. 1928.
Other use: *Mittenothamnium laxulum* (E. B. Bartram) F. D. Bowers, 1970.
M. nanooperculatum Thériot, Rev. Bryol. Lichénol. 10: 134. f. 4. 1938.
Other use: *Mittenothamnium nanooperculatum* (Thériot) Schultze-Motel, 1973.
M. nervosum Kiaer ex Renauld, Prodr. Fl. Bryol. Madagascar 244. 1897.
Other use: *Isothecium nervosum* (Kiaer ex Renauld) Buck, 1985.
M. perrieri Thériot, Recueil Publ. Soc. Havraise Études Diverses 92: 149. illustration. 1925.
Other use: *Mittenothamnium perrieri* (Thériot) Schultze-Motel, 1975.
M. scalpellifolium C. Müller, Bull. Herb. Boissier 5: 214. 1897.
Other use: *Mittenothamnium scalpellifolium* (C. Müller) H. Crum, 1968.

Miehea Ochyra, Nova Hedwigia 49: 324. 1989.
Type: *M. himalayana* Ochyra, holotype.
Original placement: Hylocomiaceae.
M. himalayana Ochyra, Nova Hedwigia 49: 324. f. 1-3. 1989.
Type: Nepal. Central Himalayas, Keldang, Dupku Danda, 4600 m, *Miehe & Miehe 6845*. Holotype: KRAM; isotypes: F, GZU. Paratypes cited.

Mielichhobryum Srivastava, Natl. Acad. Sci. Letters (India) 8: 15. 1985.
Type: *Bryum sahayadrense* Cardot & Dixon, *M. sahayadrense* (Cardot & Dixon) Srivastava, invalid combination, holotype.
Original placement: Bryaceae.
**M. sahayadrense* (Cardot & Dixon) Srivastava, Natl. Acad. Sci. Letters (India) 8: 15. 1985.
*invalid, basionym not cited (Article 33.2).

Mielichhoferia Nees & Hornschuch, 1831.
M. subgen. *Parmamielichhoferiopsis* Bardunov, Novosti Sist. Niz. Rast. 1966: 326. 1966.
Type: *M. savicziae* Bardunov, holotype.
M. ampullacea Brotherus, Bot. Jahrb. Syst. 56(Beibl. 123): 13. 1920.
Other use: *Schizymenium ampullaceum* (Brotherus) A. J. Shaw, 1985.
M. andina Sullivant, U.S. Expl. Exped., Musci 11. pl. 8. 1859.
Other use: *Schizymenium andinum* (Sullivant) A. J. Shaw, 1985.
M. antisanensis (E. B. Bartram) H. Robinson, Bryologist 70: 24. 1967.
Basionym: *Bryum antisanense* E. B. Bartram, 1964 [1965].
M. austrogeorgica C. Müller in Neumayer, Int. Polarforsch., Deutsch. Exped. 2: 293. 1890.
Other use: *Schizymenium austrogeorgicum* (C. Müller in Neumayer) A. J. Shaw, 1985.
M. basilaris Bruch & W. P. Schimper ex C. Müller, Syn. Musc. Frond. 1: 230. 1849.
Other use: *Schizymenium basilare* (Bruch & W. P. Schimper ex C. Müller) A. J. Shaw, 1985.
M. bequaertii Dixon & Naveau, Bull. Soc. Roy. Bot. Belgique 60: 35. 1927, "*bequaerti*."
Other use: *Pohlia bequaertii* (Dixon & Naveau) A. J. Shaw, 1987.
M. bogotensis Hampe, Ann. Sci. Nat. Bot., ser. 5, 4: 335. 1865.
Other use: *Schizymenium bogotense* (Hampe) A. J. Shaw, 1985.
M. boliviana W. P. Schimper ex C. Müller, Nuovo Giorn. Bot. Ital., n.s., 4: 30. 1897.
Other use: *Schizymenium bolivianum* (W. P. Schimper ex C. Müller) A. J. Shaw, 1985.
M. brachyclada (Brotherus in Felippone) A. J. Shaw & H. Crum, J. Hattori Bot. Lab. 57: 367. 1984.
Basionym: *Haplodontium brachycladum* Brotherus in Felippone, 1909.
M. brevicaulis Hornschuch, Fl. Bras. 1(2): 8. pl. 1: f. 2. 1840.
Other use: *Schizymenium brevicaule* (Hornschuch) A. J. Shaw & Churchill in Churchill, 1989.
M. campylocarpa (Arnott & W. J. Hooker in W. J. Hooker) Mitten, 1869.
**M. campylocarpa* var. *australis* (Hampe) Zanten in Zinderen Bakker, Winterbottom & R. A. Dyer, Marion & Prince Edward Islands, Musci 200. 1971.
*invalid, basionym not cited (Article 33.2).
M. cardotii A. J. Shaw & H. Crum, J. Hattori Bot. Lab. 57: 368. 1984.
Replaced name: *Haplodontium pusillum* Cardot in Grandidier, 1915.
Blocking name: *Mielichhoferia pusilla* (J. D. Hooker & Wilson) Mitten, 1869.
M. clavellata Mitten, J. Linn. Soc., Bot. 12: 321. 1869.
Other use: *Schizymenium clavellatum* (Mitten) A. J. Shaw, 1985.
M. commixta Thériot, Recueil Publ. Soc. Havraise Études Diverses 92: 136. illustration. 1925.
Other use: *Schizymenium commixtum* (Thériot) A. J. Shaw, 1985.

Mielichhoferia, continued.

M. cratericola Brotherus in Mildbraed, Wiss. Erg. Deut. Zentr.-Afr. Exped., Bot. 2: 152. pl. 13: f. 23. 1910.
Other use: *Schizymenium cratericola* (Brotherus in Mildbraed) Ochyra & A. J. Sharp, 1988.

M. cuspidata (Herzog) A. J. Shaw & H. Crum, J. Hattori Bot. Lab. 57: 367. 1984.
Basionym: *Haplodontium cuspidatum* Herzog, 1916.

M. cygnicolla W. P. Schimper ex C. Müller, Nuovo Giorn. Bot. Ital., n.s., 4: 28. 1897.
Other use: *Schizymenium cygnicollum* (W. P. Schimper ex C. Müller) A. J. Shaw, 1985.

M. decurrens C. Müller, Nuovo Giorn. Bot. Ital., n.s., 4: 30. 1897.
Other use: *Schizymenium decurrens* (C. Müller) A. J. Shaw, 1985.

M. dolichotheca Herzog, Hedwigia 74: 105. 1935 [1934].
Other use: *Schizymenium dolichothecum* (Herzog) A. J. Shaw & Churchill in Churchill, 1989.

M. fabronioides (Cardot in Grandidier) A. J. Shaw & H. Crum, J. Hattori Bot. Lab. 57: 367. 1984.
Basionym: *Haplodontium fabronioides* Cardot in Grandidier, 1915.

M. filiramea (Brotherus & Paris) A. J. Shaw & H. Crum, J. Hattori Bot. Lab. 57: 367. 1984.
Basionym: *Leskea filiramea* Brotherus & Paris, 1900.

M. fulvonitens Cardot & Brotherus, Kongl. Svenska Vetensk. Acad. Handl. 63(10): 34. 1923.
Other use: *Schizymenium fulvonitens* (Cardot & Brotherus) A. J. Shaw, 1985.

M. glomerata (Mitten) Ochi, J. Jap. Bot. 45: 21. 1970.
Basionym: *Philonotis glomerata* Mitten, 1859.

M. hariotii Thériot, Bull. Mus. Hist. Nat. (Paris) 30: 241. 1924, "*harioti*."
Other use: *Schizymenium hariotii* (Thériot) A. J. Shaw, 1985.

M. hymenodonta Dixon, Ann. Bryol. 7: 26. 1934.
Other use: *Schizymenium hymenodontum* (Dixon) A. J. Shaw, 1985.

M. hymenostoma Bruch & W. P. Schimper ex C. Müller, Syn. Musc. Frond. 1: 229. 1848.
Other use: *Schizymenium hymenostomum* (Bruch & W. P. Schimper ex C. Müller) A. J. Shaw, 1985.

M. japonica Bescherelle, J. Bot. (Morot) 12: 299. 1898.
Other use: *Mielichhoferia mielichhoferi* var. *japonica* (Bescherelle) Wijk & Margadant, 1965.

M. javanica Brotherus ex Fleischer, Musci Buitenzorg 2: 500. f. 93. 1904.
Other use: *Schizymenium javanicum* (Brotherus ex Fleischer) A. J. Shaw, 1985.

M. julacea A. J. Shaw & H. Crum, J. Hattori Bot. Lab. 57: 367. 1984.
Replaced name: *Haplodontium herzogii* Brotherus in Herzog, 1916.
Blocking name: *Mielichhoferia herzogii* Brotherus in Herzog, 1916.

Mielichhoferia, continued.

M. landii Cardot, Rev. Bryol. 38: 4. 1911.
Other use: *Schizymenium landii* (Cardot) A. J. Shaw, 1985.

M. latifolia Herzog, Hedwigia 74: 104. 1935 [1934].
Other use: *Schizymenium latifolium* (Herzog) A. J. Shaw, 1985.

M. lindigii Hampe, Linnaea 31: 520. 1862.
Other use: *Schizymenium lindigii* (Hampe) A. J. Shaw, 1985.

M. linearicaulis C. Müller, Bull. Herb. Boissier 6: 27. 1898.
Other use: *Schizymenium linearicaule* (C. Müller) A. J. Shaw, 1985.

M. macrophylla Ochi, Hikobia 4: 7. f. 11. 1964.
Type: India. United, between Chakrata and Deoban, 8000-9000 feet, *Bor 510*. Holotype: BM.

M. madagassa Cardot in Grandidier, Hist. Phys. Madagascar, Mousses 39: 272. 1915.
Other use: *Schizymenium madagassum* (Cardot in Grandidier) A. J. Shaw, 1985.

M. mielichhoferi (W. J. Hooker) Wijk & Margadant, 1961.

M. mielichhoferi var. *japonica* (Bescherelle) Wijk & Margadant, Taxon 14: 197. 1965.
Basionym: *Mielichhoferia japonica* Bescherelle, 1898.

M. mielichhoferi var. *noguchiana* Gangulee, Mosses E. India 4: 893. f. 425. 1974, "*noguchianum*."
Type: Nepal. Nepal orientalis, *Zimmermann 555a*. Holotype: BM.

M. mildbraedii Brotherus in Mildbraed, Wiss. Erg. Deut. Zentr.-Afr. Exped., Bot. 2: 152. 1910.
Other use: *Schizymenium mildbraedii* (Brotherus in Mildbraed) A. J. Shaw, 1985.

M. multiflora E. B. Bartram, Farlowia 2: 312. 1946.
Other use: *Schizymenium multiflorum* (E. B. Bartram) A. J. Shaw, 1985.

M. nealiae E. B. Bartram, Occas. Pap. Bernice P. Bishop Mus. 15: 102. f. 6. 1939.
Other use: *Schizymenium nealiae* (E. B. Bartram) A. J. Shaw, 1985.

M. novoguinensis E. B. Bartram, Contr. U.S. Natl. Herb. 37: 49. 1965.
Type: Papua New Guinea. Mt. Wilhelm, *Collins 29966*. Holotype: US.

M. paradoxa Herzog, Kryptog. Forsch. 4: 283. 1919.
Other use: *Brachymenium paradoxum* (Herzog) A. J. Shaw, 1987.

M. pectinata C. Müller, Flora 58: 532. 1875.
Other use: *Schizymenium pectinatum* (C. Müller) A. J. Shaw & Churchill in Churchill, 1989.

M. pohlioidea C. Müller, Linnaea 42: 271. 1879.
Other use: *Schizymenium pohlioideum* (C. Müller) A. J. Shaw, 1985.

M. pontevedrensis Luisier, Bróteria, Sér. Bot. 23: 126. illustration. 1927.
Other use: *Schizymenium pontevedrense* C. Casas et al., 1989.

M. pulchra Brotherus in Felippone, Contr. Fl. Bryol. Uruguay 1: [25]. 1909.
Other use: *Schizymenium pulchrum* (Brotherus in Felippone) A. J. Shaw, 1985.

Mielichhoferia, continued.

M. pulvinata C. Müller, Flora 82: 439. 1896.
Other use: *Schizymenium pulvinatum* (C. Müller) A. J. Shaw, 1985.

M. ruwenzoriensis Thériot & Naveau, Bull. Soc. Roy. Bot. Belgique 60: 36. f. 16. 1927.
Other use: *Syrrhopodon ruwenzorensis* (Thériot & Naveau) Ochyra & A. J. Sharp, 1988.

M. savicziae Bardunov, Novosti Sist. Niz. Rast. 1966: 327. f. 1-6. 1966.
Type: U.S.S.R. R.S.F.S.R.: regio Czita, in vicinitate pagi Damassovo, vallis fl. Argunj, *Bardunov*, 1963. Holotype: IRK; isotype: LE.
Original placement: subgen. *Paramielichhoferiopsis*.

M. schiedeana C. Müller, Syn. Musc. Frond. 1: 230. 1848.
Other use: *Schizymenium schiedianum* (C. Müller) A. J. Shaw, 1985.

M. sericea Dozy & Molkenboer, Ann. Sci. Nat. Bot., ser. 3, 2: 312. 1844.
Other use: *Hymenodon pilifer* subsp. *sericeus* (Dozy & Molkenboer) Karttunen & Back, 1988.

**M. sericea* W. P. Schimper ex C. Müller, Nuovo Giorn. Bot. Ital., n.s., 4: 27. 1897.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Mielichhoferia sericea* Dozy & Molkenboer, 1844.
Other use: *Schizymenium schimperi* A. J. Shaw, 1985.

M. serrata Cardot & Herzog in Cardot, Rev. Bryol. 38: 3. 1911.
Other use: *Schizymenium serratum* (Cardot & Herzog in Cardot) A. J. Shaw, 1985.

M. skottsbergii Cardot & Brotherus, Kongl. Svenska Vetensk. Acad. Handl. 63(10): 34. pl. 3: f. 17. 1923.
Other use: *Schizymenium skottsbergii* (Cardot & Brotherus) A. J. Shaw, 1985.

M. subglobosa R. S. Williams, Bull. New York Bot. Gard. 6(21): 227. 1910.
Other use: *Schizymenium subglobosum* (R. S. Williams) A. J. Shaw, 1985.

M. submacrodonta Brotherus in Herzog, Biblioth. Bot. 87: 77. 1916.
Other use: *Schizymenium submacrodontum* (Brotherus in Herzog) A. J. Shaw, 1985.

M. subobliqua Hampe, Bot. Zeitung (Berlin) 27: 867. 1869.
Other use: *Schizymenium subobliquum* (Hampe) A. J. Shaw & Churchill in Churchill, 1989.

M. subpohlioidea Brotherus, Ark. Bot. 15(6): 8. 1918.
Other use: *Schizymenium subpohlioideum* (Brotherus) A. J. Shaw, 1985.

M. tehamensis Showers, Bryologist 83: 365. f. 1-3. 1980.
Type: U.S.A. California: Tehama Co., Lassen Volcano National Park, N-facing slope of Mt. Conard, 2200 m, *Showers 3350*. Holotype: SFSU; isotypes: CAS, MICH.

M. turgens Brotherus, Proc. Linn. Soc. New South Wales 41: 585. 1916.
Other use: *Pohlia turgens* (Brotherus) A. J. Shaw, 1987.

M. vardei A. J. Shaw & H. Crum, J. Hattori Bot. Lab. 57: 367. 1984.
Replaced name: *Haplodontium nitidum* Potier de la Varde, 1935.
Blocking name: *Mielichhoferia nitida* Nees & Hornschuch, 1831.

Mielichhoferia, continued.
M. weberbaueri Brotherus, Bot. Jahrb. Syst. 56(Beibl. 123): 13. 1920.
Other use: *Schizymenium weberbaueri* (Brotherus) A. J. Shaw, 1985.

Mitrobryum H. Robinson, Bryologist 71: 82. 1968.
Type: *M. koelzii* H. Robinson, holotype.
Original placement: Dicranaceae.
M. koelzii H. Robinson, Bryologist 71: 82. f. 1-10. 1968.
Type: India. Uttar Pradesh: Tehri, Chitona, 11,000 feet, *Koelz 22015*.
Holotype: US.

Mittenothamnium Hennings, 1902, conserved name.
M. burelae (Herzog) F. J. Hermann, Bryologist 79: 159. 1976.
Basionym: *Stereohypnum burelae* Herzog, 1910.
M. ctenidioides (Dixon) Schelpe in Magill & Schelpe, Mem. Bot. Surv. South Africa 43: 7. 1979.
Basionym: *Microthamnium ctenidioides* Dixon, 1920.
M. cygnicollum (Dixon) Wijk & Margadant, Taxon 14: 197. 1965.
Basionym: *Microthamnium cygnicollum* Dixon, 1915.
M. hookerioides (Herzog) F. J. Hermann, Bryologist 79: 159. 1976.
Basionym: *Rhizohypnum hookerioides* Herzog, 1916.
M. laxulum (E. B. Bartram) F. D. Bowers, J. Hattori Bot. Lab. 33: 25. 1970.
Basionym: *Microthamnium laxulum* E. B. Bartram, 1928.
M. nanooperculatum (Thériot) Schultze-Motel, Willdenowia 7: 75. 1973.
Basionym: *Microthamnium nanooperculatum* Thériot, 1938.
**M. pachnocarpum* (C. Müller ex Brotherus) Buck, Candollea 40: 208. 1985.
*invalid, basionym invalid (Article 33.2).
M. perrieri (Thériot) Schultze-Motel, Willdenowia 7: 523. 1975.
Basionym: *Microthamnium perrieri* Thériot, 1925.
M. scalpellifolium (C. Müller) H. Crum, Advancing Frontiers Pl. Sci. 21: 193. 1968.
Basionym: *Microthamnium scalpellifolium* C. Müller, 1897.
M. sharpii (H. Crum & L. E. Anderson) Buck, Bryologist 83: 461. 1980 [1981].
Basionym: *Pterigynandrum sharpii* H. Crum & L. E. Anderson, 1967.
M. squarrosulum Cardot, Rev. Bryol. 38: 42. 1911.
Other use: *Chryso-hypnum squarrosulum* (Cardot) Nishimura & Ando, 1986.
M. tenellum F. J. Hermann, Bryologist 79: 160. 1976.
Replaced name: *Rhizohypnum delicatulum* Herzog, 1916.
Blocking name: *Mittenothamnium delicatulum* (Brotherus) Cardot, 1913.

Mitthyridium H. Robinson, Phytologia 32: 432. 1975.
Replaced name: *Thyridium* Mitten, 1868.
Blocking name: *Thyridium* Nitschke, 1867.
M. adpressum (Brotherus) H. Robinson, Phytologia 32: 432. 1975.
Basionym: *Syrrhopodon adpressus* Brotherus, 1898.

Mitthyridium, continued.

M. binsteadii (Thériot & Dixon) H. Robinson, Phytologia 32: 432. 1975.
Basionym: *Syrrhopodon binsteadii* Thériot & Dixon, 1916.

M. cardotii (Fleischer) H. Robinson, Phytologia 32: 432. 1975.
Basionym: *Thyridium cardotii* Fleischer, 1904.

M. chenagonii (Renauld & Cardot) H. Robinson, Phytologia 32: 432. 1975.
Basionym: *Syrrhopodon chenagonii* Renauld & Cardot, 1890.

M. constrictum (Sullivant) H. Robinson, Phytologia 32: 432. 1975.
Basionym: *Calymperes constrictum* Sullivant, 1859.

M. crassum (Brotherus) H. Robinson, Phytologia 32: 432. 1975.
Basionym: *Syrrhopodon crassus* Brotherus, 1898.

M. cuspidatum (Fleischer) H. Robinson, Phytologia 32: 432. 1975.
Basionym: *Thyridium cuspidatum* Fleischer, 1904.

M. cyrtophyllum (Bescherelle) H. Robinson, Phytologia 32: 433. 1975.
Basionym: *Syrrhopodon cyrtophyllus* Bescherelle, 1878.

M. fasciculatum (W. J. Hooker & Greville) H. Robinson, Phytologia 32: 433. 1975.
Basionym: *Syrrhopodon fasciculatus* W. J. Hooker & Greville, 1825.

M. fasciculatum var. *rhizophyllum* (Brotherus & Paris in Brotherus) Nowak, Bryoph. Biblioth. 20: 118. 1980.
Basionym: *Syrrhopodon fasciculatus* var. *rhizophyllus* Brotherus & Paris in Brotherus, 1911.

M. flavum (C. Müller) H. Robinson, Phytologia 32: 433. 1975.
Basionym: *Syrrhopodon flavus* C. Müller, 1855.

M. fleischeri (Schultze-Motel) H. Robinson, Phytologia 32: 433. 1975.
Basionym: *Thyridium fleischeri* Schultze-Motel, 1974.

M. geheebii (Paris) H. Robinson, Phytologia 32: 433. 1975.
Basionym: *Syrrhopodon geheebii* Paris, 1898.

M. glaucinum (Bescherelle) H. Robinson, Phytologia 32: 433. 1975.
Basionym: *Syrrhopodon glaucinus* Bescherelle, 1901.

M. iwatsukianum B. C. Tan, Mem. New York Bot. Gard. 45: 453. pl. 1. 1987.
Type: Philippines [Luzon]. Laguna: Cavinti town, Sitio Ubali, 500 m, *Tan et al. 82-371*. Holotype: CAHP; isotype: NICH.

M. jungquilianum (Mitten in Dozy & Molkenboer) H. Robinson, Phytologia 32: 433. 1975.
Basionym: *Syrrhopodon jungquilianus* Mitten in Dozy & Molkenboer, 1856.

M. letestui (Thériot & Potier de la Varde) H. Robinson, Phytologia 32: 433. 1975.
Basionym: *Thyridium letestui* Thériot & Potier de la Varde, 1925.

M. leucoloma (C. Müller) H. Robinson, Phytologia 32: 433. 1975.
Basionym: *Syrrhopodon leucoloma* C. Müller, 1883.

M. louisiadum (Brotherus) Nowak, Bryoph. Biblioth. 20: 93. 1980.
Basionym: *Syrrhopodon louisiadus* Brotherus, 1899 [1900].

M. luteum (Mitten) H. Robinson, Phytologia 32: 433. 1975.
Basionym: *Thyridium luteum* Mitten, 1868.

M. manii (Fleischer) H. Robinson, Phytologia 32: 433. 1975.
Basionym: *Thyridium manii* Fleischer, 1904.

Mitthyridium, continued.

M. megamorphum (Fleischer) H. Robinson, Phytologia 32: 433. 1975.
Basionym: *Thyridium megamorphum* Fleischer, 1917.

M. microundulatum (Dixon) H. Robinson, Phytologia 32: 433. 1975.
Basionym: *Syrrhopodon microundulatus* Dixon, 1929.

M. obtusifolium (Lindberg) H. Robinson, Phytologia 32: 434. 1975.
Basionym: *Syrrhopodon obtusifolius* Lindberg, 1864 [1865].

M. papuanum (Brotherus) H. Robinson, Phytologia 32: 434. 1975.
Basionym: *Syrrhopodon papuanus* Brotherus, 1895.

M. parvifolium (E. B. Bartram) H. Robinson, Phytologia 32: 434. 1975.
Basionym: *Thyridium parvifolium* E. B. Bartram, 1956.

M. parvulum (Jaeger) H. Robinson, Phytologia 32: 434. 1975.
Basionym: *Thyridium parvulum* Jaeger, 1880.

M. perundulatum (Brotherus in Schumann & Lauterbach) H. Robinson, Phytologia 32: 434. 1975.
Basionym: *Syrrhopodon perundulatus* Brotherus in Schumann & Lauterbach, 1900.

M. pungens (Dixon) H. Robinson, Phytologia 32: 434. 1975.
Basionym: *Syrrhopodon pungens* Dixon, 1924.

M. repens (Harvey in W. J. Hooker) H. Robinson, Phytologia 32: 434. 1975.
Basionym: *Syrrhopodon repens* Harvey in W. J. Hooker, 1837.

M. repens var. *minus* (Fleischer) B. C. Tan & Mohamed in Mohamed & B. C. Tan, Bryologist 91: 29. 1988.
Basionym: *Thyridium manii* var. *minus* Fleischer, 1904.

M. retusum (Bescherelle) W. D. Reese, Bryologist 90: 201. 1987 [1988].
Basionym: *Calymperes retusum* Bescherelle, 1896.

M. samoanum (Schultze-Motel) H. Robinson, Phytologia 32: 434. 1975.
Basionym: *Thyridium samoanum* Schultze-Motel, 1974.

M. subfasciculatum (Hampe) H. Robinson, Phytologia 32: 434. 1975.
Basionym: *Codonoblepharum subfasciculatum* Hampe, 1876.

M. subflavum (Renauld & Cardot) H. Robinson, Phytologia 32: 434. 1975.
Basionym: *Syrrhopodon subflavus* Renauld & Cardot, 1896 [1897].

M. subluteum (C. Müller) Nowak, Bryoph. Biblioth. 20: 144. 1980.
Basionym: *Codonoblepharum subluteum* C. Müller, 1874.

M. subotusifolium (Brotherus & Paris) H. Robinson, Phytologia 32: 434. 1975.
Basionym: *Syrrhopodon subobtusifolius* Brotherus & Paris, 1911.

M. undulatulum (Brotherus & Geheeb) H. Robinson, Phytologia 32: 434. 1975.
Basionym: *Syrrhopodon undulatulus* Brotherus & Geheeb, 1899 [1900].

M. undulatum (Dozy & Molkenboer) H. Robinson, Phytologia 32: 435. 1975.
Basionym: *Codonoblepharum undulatum* Dozy & Molkenboer, 1844.

M. vriesei (Sande Lacoste) H. Robinson, Phytologia 32: 435. 1975.
Basionym: *Syrrhopodon vriesei* Sande Lacoste, 1872.

M. wallisii (C. Müller) H. Robinson, Phytologia 32: 435. 1975.
Basionym: *Syrrhopodon wallisii* C. Müller, 1874.

Mniadelphus C. Müller, 1848.
M. freycinetii (Schwägrichen) C. Müller, 1850.
M. freycinetii var. *crasse-turgescens* C. Müller, Flora 82: 458. 1896.
Other use: *Distichophyllum freycinetii* var. *crasse-turgescens* (C. Müller) E. B. Bartram, 1933.

Mniobryoides Hörmann, Österr. Akad. Wiss., Math.-Naturwiss. Kl., Sitzungsber., Abt. 1, Biol. 177: 134. 1969.
Type: *M. degeneriae* Hörmann, holotype.
Original placement: Bryaceae.
M. degeneriae Hörmann, Österr. Akad. Wiss., Math.-Naturwiss. Kl., Sitzungsber., Abt. 1, Biol. 177: 134. pl. 1-3. 1969.
Type: U.S.A. Hawaii: near Mauna Loa strip road, 6500 feet, *Degener 30554*. Herbarium not specified by author.

Mniobryum Limpricht in Rabenhorst, 1892, conserved name.
**M. albicans* (Wahlenberg) Limpricht, 1892.
*illegitimate, type of earlier name included (Article 63.1).
M. albicans fo. *caucasicum* Thériot, Bull. Acad. Int. Géogr. Bot. 1918: 128. 1918.
Other use: *Mniobryum wahlenbergii* fo. *caucasicum* (Thériot) Savicz-Ljubitskaya, 1969 [1970].
M. albicans var. *pacificum* Podpera, Spisy Prír. Fak. Univ. v Brne 116: 10. f. 4. 1929.
Other use: *Mniobryum wahlenbergii* var. *pacificum* (Podpera) Savicz-Ljubitskaya, 1969 [1970].
M. tortifolium J. Fröhlich, Ann. Naturhist. Mus. Wien 67: 156. 1964.
Type: Afghanistan. Ghorat, in montis Kuh Tscheling Safed Daraq, *Rechinger 19800*. Holotype: W.
M. wahlenbergii (Weber & D. Mohr) Jennings, 1913.
M. wahlenbergii fo. *caucasicum* (Thériot) Savicz-Ljubitskaya, Novosti Sist. Niz. Rast. 6: 248. 1969 [1970].
Basionym: *Mniobryum albicans* fo. *caucasicum* Thériot, 1918.
M. wahlenbergii var. *pacificum* (Podpera) Savicz-Ljubitskaya, Novosti Sist. Niz. Rast. 6: 248. 1969 [1970].
Basionym: *Mniobryum albicans* var. *pacificum* Podpera, 1929.
M. wahlenbergii subsp. *sparsum* (Hampe ex C. Müller in Kindberg) Wijk & Margadant, Taxon 14: 197. 1965.
Basionym: *Bryum albicans* subsp. *sparsum* Hampe ex C. Müller in Kindberg, 1897 [1898].

Mniodendron Lindberg ex Dozy & Molkenboer, 1866 [1865].
M. camptotheca Duby ex Bescherelle ex Paris, Index Bryol. (ed. 2) 3: 262. 1905.
Other use: *Hypnodendron camptotheca* (Duby ex Bescherelle ex Paris) Touw, 1971.

Mniodendron, continued.

M. comatulum Geheeb ex Brotherus & Watts, Proc. Linn. Soc. New South Wales 43: 567. 1918.

Other use: *Hypnodendron comatulum* (Geheeb ex Brotherus & Watts) Touw, 1971.

M. korthalsii Bosch & Sande Lacoste ex Paris, Index Bryol. (ed. 2) 3: 263. 1905, "*korthalsi*."

Other use: *Hypnodendron milnei* subsp. *korthalsii* (Bosch & Sande Lacoste ex Paris) Touw, 1971.

M. parvum C. Müller, Hedwigia 41: 133. 1902.

Other use: *Hypnodendron milnei* subsp. *parvum* (C. Müller) Touw, 1971.

M. tahiticum Bescherelle, Bull. Soc. Bot. France 48: 12. 1901.

Other use: *Hypnodendron tahiticum* (Bescherelle) Touw, 1971.

Mnium Hedwig, 1801, conserved name.

M. subsect. *Bifariella* C. Müller, Gen. Musc. Frond. 140. 1900.

Other use: *Pyrrhobryum* sect. *Bifariella* (C. Müller) Manuel, 1980.

M. sect. *Cuspidatiformia* Kindberg, Eur. N. Amer. Bryin. 2: 339. 1897 [1898].

Other use: *Mnium* subgen. *Cuspidatiformia* (Kindberg) Chen Pan-chieh ex Li Xing-jiang & Zang Mu, 1979.

M. subgen. *Cuspidatiformia* (Kindberg) Chen Pan-chieh ex Li Xing-jiang & Zang Mu, Acta Bot. Yunnan. 1: 50. 1979.

Basionym: *Mnium* sect. *Cuspidatiformia* Kindberg, 1897 [1898].

M. sect. *Heterophylla* Chen Pan-chieh ex Li Xing-jiang & Zang Mu, Acta Bot. Yunnan. 1: 40. 1979.

Type: *Bryum heterophyllum* W. J. Hooker, *M. heterophyllum* (W. J. Hooker) Schwaegrichen, holotype.

**M.* sect. *Immarginata* (Ångström) Li Xing-jiang & Zang Mu, Acta Bot. Yunnan. 1: 50. 1979.

*invalid, basionym invalid (Article 33.2).

**M.* sect. *Integerrimae* (Limpricht) Chen Pan-chieh ex Li Xing-jiang & Zang Mu, Acta Bot. Yunnan. 1: 74. 1979, "*Integgerima*."

*illegitimate, type of earlier name included (Article 63.1) .

Basionym: *Mnium* subgen. *Integerrimae* Limpricht, 1893.

Correct name: *Mnium* sect. *Rhizomnium* Mitten ex Brotherus, 1904.

M. subgen. *Integerrimae* Limpricht, Laubm. Deutschl. 2: 482. 1893.

Other use: *Mnium* sect. *Integerrimae* (Limpricht) Chen Pan-chieh ex Li Xing-jiang & Zang Mu, 1979.

M. sect. *Laevinervia* Chen Pan-chieh ex Li Xing-jiang & Zang Mu, Acta Bot. Yunnan. 1: 45. 1979.

Type: *M. laevinerve* Cardot, holotype.

M. subgen. *Pseudobryum* Kindberg, Eur. N. Amer. Bryin. 2: 338. 1897 [1898], "*Pseudo-bryum*."

Other use: *Plagiomnium* sect. *Pseudobryum* (Kindberg) M. C. Bowers, 1980, *Pseudobryum* (Kindberg) T. Koponen, 1968.

Mnium, continued.

M. sect. *Rhizomnium* Mitten ex Brotherus, Nat. Pflanzenfam. 1(3): 612. 1904.
Other use: *Rhizomnium* (Mitten ex Brotherus) T. Koponen, 1968.

M. sect. *Rosulata* Kindberg, Eur. N. Amer. Bryin. 2: 339. 1897 [1898].
Other use: *Plagiomnium* sect. *Rosulata* (Kindberg) T. Koponen, 1968.

M. sect. *Spinosa* (Kindberg) T. Koponen, Ann. Bot. Fenn. 5: 141. 1968.
Basionym: *Mnium* [rank not indicated] *Spinosa* Kindberg, 1897 [1898].

M. [rank not indicated] *Spinosa* Kindberg, Eur. N. Amer. Bryin. 2: 339. 1897 [1898].
Other use: *Mnium* sect. *Spinosa* (Kindberg) T. Koponen, 1968.
Note: valid without indication of rank (Article 35.2).

M. sect. *Stellariformia* (Kindberg) T. Koponen, Ann. Bot. Fenn. 5: 141. 1968.
Basionym: *Mnium* [rank not indicated] *Stellariformia* Kindberg, 1897 [1898].

M. [rank not indicated] *Stellariformia* Kindberg, Eur. N. Amer. Bryin. 2: 338. 1897 [1898].
Other use: *Mnium* sect. *Stellariformia* (Kindberg) T. Koponen, 1968.
Note: valid without indication of rank (Article 35.2).

M. subgen. *Trachycystis* (Lindberg) Chen Pan-chieh ex Li Xing-jiang & Zang Mu, Acta Bot. Yunnan. 1: 38. 1979.
Basionym: *Trachycystis* Lindberg, 1868.

M. sect. *Undulata* Kindberg, Eur. N. Amer. Bryin. 2: 339. 1897 [1898].
Other use: *Plagiomnium* sect. *Undulata* (Kindberg) T. Koponen, 1968.

M. subsect. *Venusta* Kabiersch, Hedwigia 76: 39. 1936.
Other use: *Plagiomnium* sect. *Venusta* (Kabiersch) T. Koponen, 1968.

M. acutum Lindberg, Contr. Fl. Crypt. As. [Acta Soc. Sci. Fenn. 10:] 227. 1872.
Other use: *Plagiomnium acutum* (Lindberg) T. Koponen, 1975.

M. affine Blandow ex Funck, Krypt. Gew. Fichtelgeb. 17: 3. 1810.
Other use: *Plagiomnium affine* (Blandow ex Funck) T. Koponen, 1968.

M. affine var. *ciliare* C. Müller, Syn. Musc. Frond. 1: 159. 1848.
Replaced name: *Bryum ciliare* Greville, 1825.
Blocking name: *Bryum ciliare* Dickson, 1801.
Other use: *Plagiomnium ciliare* (C. Müller) T. Koponen, 1968.
Note: new name, based on adoption of earlier epithet (Article 72.Note 1).

M. affine fo. *elatum* (Bruch & W. P. Schimper) Margadant, Lindbergia 1: 128. 1972.
Basionym: *Mnium affine* var. *elatum* Bruch & W. P. Schimper, 1838.

M. affine var. *elatum* Bruch & W. P. Schimper, Bryol. Eur. 4: 195. pl. 398: elatum (fasc. 5. Monogr. 31. pl. 10: elatum). 1838.
Other use: *Mnium affine* fo. *elatum* (Bruch & W. P. Schimper) Margadant, 1972, *Plagiomnium affine* var. *elatum* (Bruch & W. P. Schimper) Margadant & During, 1982, *Plagiomnium elatum* (Bruch & W. P. Schimper) T. Koponen, 1968.

M. affine fo. *rugicum* (Laurer) Margadant, Lindbergia 1: 128. 1972.
Basionym: *Mnium rugicum* Laurer, 1827.

Mnium, continued.

M. amurense Brotherus, Trudy Bot. Muz. Imp. Akad. Nauk 16: 30. pl. 3: f. 3, pl. 4: f. 7. 1916.
Other use: *Mnium trichomanes* var. *amurense* (Brotherus) Smirnova, 1969 [1970].

M. andrewsianum Steere, Bryologist 61: 175. f. 1-12. 1958.
Other use: *Rhizomnium andrewsianum* (Steere) T. Koponen, 1968.

M. arbuscula C. Müller, Nuovo Giorn. Bot. Ital., n.s., 5: 161. 1898.
Other use: *Plagiomnium arbuscula* (C. Müller) T. Koponen, 1968.

**M. arcuatum* Brotherus, Hedwigia 38: 221. 1899.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Mnium arcuatum* Dickson & Withering, 1801.
Other use: *Trachycystis arcuata* Lazarenko, 1941.

M. areolosum Li Xing-jiang & Zang Mu, Acta Bot. Yunnan. 1: 74. pl. 10. 1979.
Type: China. Sichuan: Hsiao-jin, 3400 m, *Li 10039*. Holotype: KUN.
Original placement: sect. *Undulata*.

M. blyttii Bruch & W. P. Schimper in B.S.G., Bryol. Eur. 4: 208. pl. 400: blyttii (fasc. 31. Monogr. Suppl. 1: 6. pl. 5: blyttii). 1846.
Other use: *Stellariomnium blyttii* (Bruch & W. P. Schimper in B.S.G.) M. C. Bowers, 1980.

M. carolinianum L. E. Anderson, Bryologist 57: 177. f. 1-19. 1954.
Other use: *Plagiomnium carolinianum* (L. E. Anderson) T. Koponen, 1977, *Plagiomnium rhynchophorum* var. *carolinianum* (L. E. Anderson) T. Koponen, 1981.

M. cinclidioides Hübener, Muscol. Germ. 416. 1833.
Other use: *Plagiomnium cinclidioides* (Hübener) M. C. Bowers, 1980, *Pseudobryum cinclidioides* (Hübener) T. Koponen, 1968.

M. cinclidioides fo. *dentatum* Smirnova, Novosti Sist. Niz. Rast. 6: 255. 1969 [1970].
Type: U.S.S.R. Hibinah, *Ladyzenskoj*, 1936. Herbarium not specified by author.

M. cuspidatum Hedwig, Sp. Musc. Frond. 192. pl. 45: f. 5-6. 1801.
Other use: *Plagiomnium cuspidatum* (Hedwig) T. Koponen, 1968.

M. cuspidatum var. *subintegrum* Chen Pan-chieh ex Li Xing-jiang & Zang Mu, Acta Bot. Yunnan. 1: 54. pl. 5. 1979.
Type: China. Sichuan: Chungking, *Liu 1*. Holotype: KUN.

M. cuspidatum var. *trichomanes* (Mitten) Chen Pan-chieh ex Li Xing-jiang & Zang Mu, Acta Bot. Yunnan. 1: 56. 1979.
Basionym: *Mnium trichomanes* Mitten, 1856.

M. decursivifolium C. Müller, Gen. Musc. Frond. 135. 1900.
Other use: *Plagiomnium trichomanes* var. *decursivifolium* (C. Müller) Iwatsuki & Noguchi, 1973.

M. denticulosum Chen Pan-chieh ex Li Xing-jiang & Zang Mu, Acta Bot. Yunnan. 1: 63. pl. 7. 1979.
Type: China. Fujian: Wuyishan, *Chen et al. 191*. Holotype: KUN.
Original placement: sect. *Rostrata*.

Mnium, continued.

M. dilatatum Wilson ex Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 143. 1859.
Other use: *Orthomniopsis dilatata* (Wilson ex Mitten) Noguchi in H. Hara, 1966.

M. drummondii Bruch & W. P. Schimper, London J. Bot. 2: 669. 1843.
Other use: *Plagiomnium drummondii* (Bruch & W. P. Schimper) T. Koponen, 1968.

M. ecklonii C. Müller, Bot. Zeitung (Berlin) 13: 749. 1855, "*eckloni*."
Other use: *Plagiomnium ecklonii* (C. Müller) T. Koponen, 1977.

M. elimbatum Fleischer in Brotherus, Nat. Pflanzenfam. 1(3): 610. 1904 [Jan].
Other use: *Plagiomnium elimbatum* (Fleischer in Brotherus) T. Koponen, 1974.

M. ellipticum Bridel, Muscol. Recent. Suppl. 3: 53. 1817.
Other use: *Plagiomnium ellipticum* (Bridel) T. Koponen, 1971.

M. flagellare Sullivant & Lesquereux, Proc. Amer. Acad. Arts 4: 277. 1859.
Other use: *Flagellomnium flagellare* (Sullivant & Lesquereux) Lazarenko, 1941.

M. glabrescens Kindberg, 1893.

M. glabrescens subsp. *chlorophyllosum* Kindberg, Eur. N. Amer. Bryin. 2: 340. 1897 [1898].
Other use: *Rhizomnium punctatum* subsp. *chlorophyllosum* (Kindberg) T. Koponen, 1973.

**M. gracile* (T. Koponen) H. Crum & L. E. Anderson, Mosses E. N. Amer. 1: 604. 1981.
*illegitimate, later homonym (Article 64.1).
Basionym: *Rhizomnium gracile* T. Koponen, 1973.
Earlier name: *Mnium gracile* Funck, 1804.
Correct name: *Mnium koponenii* H. Crum, 1983.

M. handelii Brotherus, Symb. Sin. 4: 61. 1929.
Other use: *Orthomnion handelii* (Brotherus) T. Koponen, 1980.

M. horikawae Noguchi, Trans. Nat. Hist. Soc. Taiwan 24: 290. 1934.
Other use: *Mnium punctatum* var. *horikawae* (Noguchi) Noguchi in H. Hara, 1966, *Rhizomnium horikawae* (Noguchi) T. Koponen, 1971, *Rhizomnium punctatum* var. *horikawae* (Noguchi) Noguchi in Iwatsuki & Noguchi, 1975.

M. hymenophylloides Hübener, Muscol. Germ. 416. 1833.
Other use: *Cyrtomnium hymenophylloides* (Hübener) T. Koponen, 1968.

M. immarginatum Brotherus, Acta Soc. Sci. Fenn. 19(12): 12. 1892.
Other use: *Trachycystis immarginata* (Brotherus) Lazarenko, 1941.

**M. inclinatum* Lindberg, Not. Sällsk. Fauna Fl. Fenn. Förh. 9: 48. 1868.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Mnium inclinatum* (Swartz ex Bridel) Palisot de Beauvois, 1805.
Correct name: *Mnium lindbergii* Smirnova, 1969 [1970].

M. insigne Mitten, Kew J. Bot. 8: 230. 1856.
Other use: *Plagiomnium insigne* (Mitten) T. Koponen, 1968.

Mnium, continued.

M. integroradiatum Dixon, Hong Kong Naturalist, Suppl. 2: 17. pl. 1: f. 9. 1933.
Other use: *Plagiomnium integroradiatum* (Dixon) Gao Chien & Chang Kung-chu, 1983.

M. integrum Bosch & Sande Lacoste, Bryol. Jav. 1: 153. pl. 122. 1861.
Other use: *Plagiomnium integrum* (Bosch & Sande Lacoste) T. Koponen, 1971.

M. japonicum Lindberg, Acta Soc. Sci. Fenn. 10: 226. 1872.
Other use: *Plagiomnium japonicum* (Lindberg) T. Koponen, 1968.

M. javense Fleischer, Musci Buitenzorg 2: 585. 1904.
Other use: *Orthomnion javense* (Fleischer) T. Koponen, 1980.

M. kawadei S. Okamura in Matsumura, Icon. Pl. Koisik. 3: 37. pl. 164. 1920.
Other use: *Plagiomnium kawadei* (S. Okamura in Matsumura) Iwatsuki in H. Inoue & Iwatsuki, 1970.
Note: incorrectly spelled "*kawadai*" in Index Muscorum.

M. koponenii H. Crum, Mosses Great Lakes For. (ed. 3) 188. 1983.
Replaced name: *Mnium gracile* (T. Koponen) H. Crum & L. E. Anderson, 1981.
Blocking name: *Mnium gracile* Funck, 1804.

M. latilimbatum Li Xing-jiang & Zang Mu, Acta Bot. Yunnan. 1: 57. pl. 6. 1979.
Type: China. Xinjiang: Ho-shan Xian, 1700 m, *Chin 3128*(b). Holotype: KUN.
Original placement: sect. *Immarginata*.

M. leucolepioides Chen Pan-chieh ex Li Xing-jiang & Zang Mu, Acta Bot. Yunnan. 1: 52. pl. 4. 1979.
Type: China. Shaanxi: W. Tai-bai-shan, 1900 m, *Wei 6531*. Holotype: KUN.
Original placement: sect. *Immarginata*.

M. lindbergii Smirnova, Novosti Sist. Niz. Rast. 6: 255. 1969 [1970].
Replaced name: *Mnium inclinatum* Lindberg, 1868.
Blocking name: *Mnium inclinatum* (Swartz ex Bridel) Palisot de Beauvois, 1805.

M. longimucronatum Li Xing-jiang & Zang Mu, Acta Bot. Yunnan. 1: 42. pl. 1. 1979.
Type: China. Xizang: Neh-La-mu, 4000 m, *Chen 96*. Holotype: KUN.
Original placement: sect. *Heterophylla*.

M. longispinum Li Xing-jiang & Zang Mu, Acta Bot. Yunnan. 1: 49. pl. 3. 1979.
Type: China. Yunnan: Weixi County, slope of Mt. Kangpuleng, 2600 m, *Wang 4456*. Holotype: KUN.
Original placement: sect. *Spinosa*.

M. magnifolium Horikawa, J. Jap. Bot. 11: 503. f. 4-5. 1935.
Other use: *Rhizomnium magnifolium* (Horikawa) T. Koponen, 1973.

M. magnirete (Lindb. & Arn.) Kindberg, 1888 [1893].

M. magnirete var. *polymorphum* Li Xing-jiang & Zang Mu, Acta Bot. Yunnan. 1: 44. pl. 2. 1979.
Type: China. Nei Mongol: Mt. Daqing, Shuimogou Tree Farm, *Tong 1580*. Holotype: KUN.

Mnium, continued.

M. marginatum Palisot de Beauvois, 1805.

M. marginatum var. *dioicum* (H. L. H. Müller) Crundwell, Trans. Brit. Bryol. Soc. 4: 335. 1962 [1963].

Basionym: *Mnium serratum* var. *dioicum* H. L. H. Müller, 1864.

M. maximoviczii Lindberg, Acta Soc. Sci. Fenn. 10: 224. 1872.

Other use: *Plagiomnium maximoviczii* (Lindberg) T. Koponen, 1968.

M. maximoviczii var. *emarginatum* Chen Pan-chieh ex Li Xing-jiang & Zang Mu, Acta Bot. Yunnan. 1: 68. pl. 8. 1979.

Type: China. Yunnan: Binchwan, *Hsu 16*. Holotype: KUN.

M. medium Bruch & W. P. Schimper, Bryol. Eur. 4: 196. pl. 398: medium (fasc. 5. Monogr. 32. pl. 10: medium). 1838.

Other use: *Plagiomnium medium* (Bruch & W. P. Schimper) T. Koponen, 1968.

M. microovale C. Müller, Nuovo Giorn. Bot. Ital., n.s., 4: 246. 1897.

Other use: *Plagiomnium rostratum* fo. *microovale* (C. Müller) Gao Chien & Chang Kung-chu, 1983.

M. minutulum Bescherelle, Ann. Sci. Nat. Bot., ser. 7, 17: 346. 1893.

Other use: *Rhizomnium minutulum* (Bescherelle) T. Koponen, 1968.

+*M. montanense* R. W. Brown, Geol. Surv. Prof. Pap. 375: 41. pl. 5: f. 12. 1962.

Other use: *Muscites montanensis* (R. W. Brown) N. G. Miller in R. J. Taylor & Leviton, 1980.

M. novae-zealandiae Colenso, Trans. & Proc. New Zealand Inst. 18: 225. 1886.

Other use: *Plagiomnium novae-zealandiae* (Colenso) T. Koponen, 1977.

M. nudum Britton & R. S. Williams, Bryologist 3: 6. 1900.

Other use: *Rhizomnium nudum* (Britton & R. S. Williams) T. Koponen, 1968.

M. paramattense C. Müller, Syn. Musc. Frond. 2: 555. 1851.

Other use: *Pyrrhobryum paramattense* (C. Müller) Manuel, 1980.

M. parvulum Mitten, Trans. Linn. Soc. London, Bot. 3: 168. 1891.

Other use: *Rhizomnium parvulum* (Mitten) T. Koponen, 1973.

M. pensylvanicum Bridel, Muscol. Recent. Suppl. 3: 44. 1817.

Other use: *Splachnum pensylvanicum* (Bridel) Grout ex H. Crum, 1966.

M. prorepens C. Müller, Flora 82: 437. 1896.

Other use: *Plagiomnium prorepens* (C. Müller) T. Koponen, 1977.

M. pseudopunctatum Bruch & W. P. Schimper, London J. Bot. 2: 669. 1843.

Other use: *Rhizomnium pseudopunctatum* (Bruch & W. P. Schimper) T. Koponen, 1968.

M. punctatum Hedwig, Sp. Musc. Frond. 193. 1801.

Other use: *Rhizomnium punctatum* (Hedwig) T. Koponen, 1968.

M. punctatum var. *appalachianum* (T. Koponen) H. Crum & L. E. Anderson, Mosses E. N. Amer. 1: 606. 1981.

Basionym: *Rhizomnium appalachianum* T. Koponen, 1973.

M. punctatum var. *elatum* W. P. Schimper, Syn. Musc. Eur. 398. 1860.

Other use: *Rhizomnium punctatum* var. *elatum* (W. P. Schimper) T. Koponen, 1968.

Mnium, continued.

M. punctatum var. *horikawae* (Noguchi) Noguchi in H. Hara, Fl. E. Himalaya 1: 562. 1966.
Basionym: *Mnium horikawae* Noguchi, 1934.

M. rhynchophorum W. J. Hooker, Icon. Pl. 1: pl. 20: f. 3. 1836.
Other use: *Plagiomnium rhynchophorum* (W. J. Hooker) T. Koponen, 1971, *Plagiomnium rostratum* subsp. *rhynchophorum* (W. J. Hooker) Noguchi in Noguchi & Iwatsuki, 1975.

M. roellii Brotherus in Röll, Bot. Centralbl. 44: 420. 1890.
Other use: *Roellia roellii* (Brotherus in Röll) Andrews ex H. Crum, 1967.

M. rostratum Schrader, Bot. Zeitung (Regensburg) 1: 79. 1802.
Other use: *Plagiomnium rostratum* (Schrader) T. Koponen, 1968.

M. rostratum var. *americanum* Hampe, Vidensk. Meddel. Dansk Naturhist. Foren. Kjøbenhavn, ser. 3, 6: 150. 1875.
Other use: *Plagiomnium rostratum* var. *americanum* (Hampe) T. Koponen, 1977.

M. rostratum var. *reidii* Dixon, Trans. Roy. Soc. South Africa 8: 204. 1920.
Other use: *Plagiomnium rhynchophorum* var. *reidii* (Dixon) T. Koponen, 1981.

M. rotundifolium E. B. Bartram, 1953.

M. rotundifolium var. *limbatum* Zanten, Nova Guinea, Bot. 10(16): 289. pl. 24: f. 59. 1964.
Type: Indonesia [New Guinea]. Irian Barat: Sibil-valley, Basis Camp, 1300 m, *Zanten 560d*. Holotype: L; isotype: GRO.

M. rugicum Laurer, Flora 10: 292. 1827.
Other use: *Mnium affine* fo. *rugicum* (Laurer) Margadant, 1972, *Plagiomnium affine* var. *rugicum* (Laurer) Margadant & During, 1982, *Plagiomnium rugicum* (Laurer) T. Koponen, 1968.

M. saximontanum M. C. Bowers, Bryologist 72: 63. f. 1-10. 1969.
Type: U.S.A. Colorado: Boulder Co., 10.5 miles N of Nederland, E-facing slope of Niwot Ridge, 9500 feet, *Bowers bb-197*. Holotype: COLO.

M. serratum Schrader ex Bridel, 1803.

M. serratum var. *dioicum* H. L. H. Müller, Westfal. Laubm. 323. 1864.
Other use: *Mnium marginatum* var. *dioicum* (H. L. H. Müller) Crundwell, 1962 [1963].

M. sichuanense Li Xing-jiang & Zang Mu, Acta Bot. Yunnan. 1: 72. pl. 9. 1979.
Type: China. Sichuan: Ma-er-kang, 3340 m, *Lee 1002*. Holotype: KUN.
Original placement: sect. *Undulata*.

M. spathulatum Hornschuch, Linnaea 15: 135. 1841.
Other use: *Rhodobryum spathulatum* (Hornschuch) Pócs in Bizot & Pócs, 1979 [1980].

M. speciosum Mitten, Trans. Linn. Soc. London, Bot., ser. 2, 3: 166. pl. 51: f. 6-9. 1891.
Other use: *Plagiomnium speciosum* (Mitten) M. C. Bowers, 1980, *Pseudobryum speciosum* (Mitten) T. Koponen, 1968.

Mnium, continued.

M. spiniforme (Hedwig) C. Müller, 1848.

M. spiniforme var. *comorense* C. Müller, Linnaea 40: 245. 1876.
Other use: *Pyrrhobryum spiniforme* var. *comorense* (C. Müller) Manuel, 1980.

M. stellare Reichard ex Hedwig, Sp. Musc. Frond. 191. pl. 45: f. 1-4. 1801.
Other use: *Stellariomnium stellare* (Reichard ex Hedwig) M. C. Bowers, 1980.

M. striatulum Mitten, J. Linn. Soc., Bot., ser. 2, 3: 167. 1891.
Other use: *Rhizomnium striatulum* (Mitten) T. Koponen, 1968.

M. subelimbatum Dixon, J. Bot. 80: 820. 1942.
Other use: *Plagiomnium subelimbatum* (Dixon) T. Koponen, 1979.

M. sublimbatum (Potier de la Varde) Ochi, J. Fac. Educ. Tottori Univ., Nat. Sci. 23: 125. 1972.
Basionym: *Bryum tisserantii* var. *sublimbatum* Potier de la Varde, 1935.

M. succulentum Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 143. 1859.
Other use: *Plagiomnium succulentum* (Mitten) T. Koponen, 1968.

M. tezukae Sakurai, J. Jap. Bot. 29: 114. f. 4. 1954.
Other use: *Plagiomnium tezukae* (Sakurai) T. Koponen, 1968.

M. trichomanes Mitten, Hooker's J. Bot. Kew Gard. Misc. 8: 231. 1856.
Other use: *Mnium cuspidatum* var. *trichomanes* (Mitten) Chen Pan-chieh ex Li Xing-jiang & Zang Mu, 1979, *Plagiomnium trichomanes* (Mitten) T. Koponen, 1968.

M. trichomanes var. *amurense* (Brotherus) Smirnova, Novosti Sist. Niz. Rast. 6: 256. 1969 [1970].
Basionym: *Mnium amurense* Brotherus, 1916.

**M. umbratum* Mitten ex T. Koponen, Ann. Bot. Fenn. 18: 113. 1981.
*invalid, orthographic variant (Article 75.1).
Correct name: *Mnium umbratile* Mitten, 1864.

M. undulatum Hedwig, Sp. Musc. Frond. 195. 1801.
Other use: *Plagiomnium undulatum* (Hedwig) T. Koponen, 1968.

M. undulatum fo. *brevisetum* (Thériot) Smirnova, Novosti Sist. Niz. Rast. 6: 256. 1969 [1970].
Basionym: *Mnium undulatum* var. *brevisetum* Thériot, 1918.

M. undulatum var. *brevisetum* Thériot, Bull. Acad. Int. Géogr. Bot. 28: 130. 1918.
Other use: *Mnium undulatum* fo. *brevisetum* (Thériot) Smirnova, 1969 [1970].

M. ussuriense Maack & Regel in Regel, Mém. Acad. Imp. Sci. Saint Pétersbourg, ser. 7, 4(4): 182. 1861.
Other use: *Trachycystis ussuriensis* (Maack & Regel in Regel) T. Koponen, 1977.

M. vallis-gratiae Hampe ex C. Müller, Bot. Zeitung (Berlin) 17: 205. 1859.
Other use: *Pyrrhobryum vallis-gratiae* (Hampe ex C. Müller) Manuel, 1980.

M. venustum Mitten, Kew J. Bot. 8: 231. pl. 12: b. 1856.
Other use: *Plagiomnium venustum* (Mitten) T. Koponen, 1968.

Mnium, continued.
M. vesicatum Bescherelle, Ann. Sci. Nat. Bot., ser. 7, 17: 345. 1893.
Other use: *Plagiomnium rostratum* subsp. *vesicatum* (Bescherelle) Noguchi in Noguchi & Iwatsuki, 1975, *Plagiomnium vesicatum* (Bescherelle) T. Koponen, 1968.

Moenkemeyera C. Müller, 1886.
M. abrupta Brotherus, Bih. Kongl. Svenksa Vetensk.-Akad. Handl. 26 Afd. 3(7): 14. 1900.
Other use: *Fissidens abruptus* (Brotherus) Brotherus ex Pursell, 1979.
M. diaphanodonta Potier de la Varde, Rev. Bryol. Lichénol. 20: 4. f. 2. 1951.
Other use: *Fissidens diaphanodontus* (Potier de la Varde) Bizot in Bizot & Pócs, 1979 [1980].
M. minutifolia C. Müller, Hedwigia 39: 237. 1900.
Other use: *Fissidens afissidens* Bruggeman-Nannenga in Bruggeman-Nannenga & Berendsen in Bruggeman-Nannenga, 1988.
M. obtusifolia R. S. Williams, Bull. New York Bot. Gard. 3(9): 113. 1903.
Other use: *Fissidens geminidens* Bruggeman-Nannenga in Bruggeman-Nannenga & Berendsen in Bruggeman-Nannenga, 1988.
M. richardsii R. S. Williams, Bull. Misc. Inform. 1934: 319. f. 1. 1934, "*richardsi*."
Other use: *Fissidens diplodus* var. *richardsii* (R. S. Williams) Pursell, 1980, *Fissidens muriculatus* var. *richardsii* (R. S. Williams) Florschütz, 1964.
M. subsphaerocarpa Potier de la Varde, Rev. Bryol. Lichénol. 20: 3. f. 1. 1951.
Other use: *Fissidens subsphaerocarpa* (Potier de la Varde) Bruggeman-Nannenga in Bruggeman-Nannenga & Berendsen in Bruggeman-Nannenga, 1988.
M. termitarum Herzog, Beih. Bot. Centralbl. 26: 59. f. 8. 1910.
Other use: *Fissidens termitarum* (Herzog) Pursell, 1979.

Molendoa Lindberg, 1878.
M. clavuligera Castelli, Rev. Bryol. Lichénol. 34: 716. f. 1-16. 1966 [1967].
Type: France. Petit-Mont-Cenis, pres des granges Valloire, 2130 m, *Castelli s.n.* Holotype: PC. Paratypes cited.
M. japonica Brotherus, Oefers. Förh. Finska Vetensk.-Soc. 62A(9): 6. 1921.
Other use: *Didymodon japonicus* (Brotherus) K. Saito, 1975, *Hymenostyliella japonica* (Brotherus) K. Saito, 1971.
M. taeniatifolia Herzog, Flora 137: 57. f. a-k. 1943.
Other use: *Anoectangium taeniatifolium* (Herzog) M. O. Hill, 1981.

Mollia Schrank ex Lindberg, 1878.
M. tenuirostris (W. J. Hooker & Taylor) Lindberg, 1879.
M. tenuirostris var. *holtii* Braithwaite, Brit. Moss Fl. 1: 248. 1887.
Other use: *Oxystegus tenuirostris* var. *holtii* (Braithwaite) A. J. E. Smith, 1977.

Mollia, continued.
M. tortuosa (Hedwig) Schrank & Lindberg, 1879.
M. tortuosa var. *arctica* Arnold, Ark. Bot. 13(2): 51. 1913.
Other use: *Tortella arctica* (Arnold) Crundwell & Nyholm, 1963 [1964].

***Morinia** Cardot, 1910.
*illegitimate, later homonym.
Earlier name: *Morinia* Berlese & Bresadola, 1889.
M. crassicuspis (H. Robinson) Zander, Bryologist 81: 557. 1978 [1979].
Basionym: *Barbula crassicuspis* H. Robinson, 1964.
M. ehrenbergiana (C. Müller) Thériot, 1931.
M. ehrenbergiana var. *elongata* (Wilson in Mitten) Zander, Bryologist 81: 557. 1978 [1979].
Basionym: *Barbula elongata* Wilson in Mitten, 1851.
M. saitoana Zander, Delgadillo M. & Eckel, Bryologist 83: 510. f. 1-17. 1980 [1981].
Type: Mexico. Veracruz: Cofre de Perote, 3400 m, *Hernandez L. 100*. Holotype: MEXU; isotypes: BUF, XAL.
M. stenotheca (Thériot) Zander, Bryologist 86: 156. 1983.
Basionym: *Barbula stenotheca* Thériot, 1931.

Moseniella Brotherus, 1918.
M. ulei (C. Müller ex Brotherus) A. Koponen, Ann. Bot. Fenn. 14: 196. 1977.
Basionym: *Tayloria ulei* C. Müller ex Brotherus, 1895.

Muelleriella Dusén, 1905.
M. atrata (Mitten) Vitt, Lindbergia 5: 95. 1979 [1980].
Basionym: *Orthotrichum atratum* Mitten, 1876 [1877].
M. aucklandica Vitt, J. Hattori Bot. Lab. 40: 94. f. 1-7, 36. 1976.
Type: Auckland Islands. Auckland Island: NE shore of Lake Hinemoa, Musgrave Islet, 25 m, *Vitt 9172*. Holotype: ALTA; isotypes: CHR, MSC, NY.
M. crassifolia (J. D. Hooker & Wilson) Dusén, 1905.
M. crassifolia var. *acuta* (C. Müller) Vitt, J. Hattori Bot. Lab. 40: 103. 1976.
Basionym: *Orthotrichum crassifolium* var. *acutum* C. Müller, 1849.
M. engelii Vitt, J. Hattori Bot. Lab. 40: 98. f. 16-21. 1976.
Type: Kerguelen Islands. Ile Longue, E side of Port-Bizet, 50 m, *Engel 8057*. Holotype: ALTA; isotypes: CHR, F, H, MSC, NY, PC, S.

+**Musciphyton** Greguss, Acta Biol. (Szeged 1955+) 7: 15. 1961.
Type: *M. ramosum* Greguss, holotype.
Original placement: not indicated by author.
Note: not in Index Muscorum.
+*M. ramosum* Greguss, Acta Biol. (Szeged 1955+) 7: 15. pl. 1. + pl. 2-3. 1961.
Note: not in Index Muscorum.

+**Muscites** Brongniart, 1828.

+*M. coloradensis* N. G. Miller in R. J. Taylor & Leviton, Mosses N. Amer. 17. 1980.
Replaced name: *Hypnum coloradense* R. W. Brown, 1962.
Blocking name: *Hypnum coloradense* Austin, 1877.
Note: new name, based on adoption of earlier epithet (Article 72.Note 1).

+*M. eocenicus* Kuc, Canad. J. Earth Sci. 9: 602. f. 1. 1972.
Type: Canada. British Columbia: near Princeton, Allenby Formation (Middle Eocene), *Hill 31230*. Holotype: National Type Fossil Collection, Geological Survey of Canada, Ottawa.
Other use: *Plagiopodopsis eocenica* (Kuc) N. G. Miller in R. J. Taylor & Leviton, 1980.

+*M. fontinalioides* Krasilov, Palaeontographica, Abt. B, Paläophytol. 143: 101. pl. 50: f. 98-104. 1973.
Type: U.S.S.R. Bureja basin, near the mouth of the Umalta River, (Late Jurassic), *Krasilov 515-05*. Herbarium not specified by author.

+*M. ingodensis* Srebrodol'skaya, Trudy Vsesojuzn. Nauchno-Issl. Geol. Inst. 204: 27. pl. 5: f. 2. 1980.
Type: U.S.S.R. Siberia, Central Transbaikal, Ingoda River, Lower Cretaceous, *Krasinez s.n.*. Holotype: Central Scientific Research Geological-Prospecting Museum, Leningrad.

+*M. lanceolatus* Boulter, J. Bryol. 8: 65. pl. 1. 1974, "*lanceolata*."
Type: United Kingdom. Derbyshire, Bee's Nest Pit, *Boulter V56214*. Holotype: BM.

+*M. maycockii* Kuc, Canad. J. Earth Sci. 11: 411. f. 4: a-c. 1974, "*maycocki*."
Type: Canada. British Columbia: 9 km N of Princeton, Allenby Formation (Mid-Eocene), *Hills GSC-34743*. Holotype: Natl. Type Fossil Coll., Geol. Surv. Canada.

+*M. montanensis* (R. W. Brown) N. G. Miller in R. J. Taylor & Leviton, Mosses N. Amer. 17. 1980.
Basionym: *Mnium montanense* R. W. Brown, 1962.

+*M. ostracodiferus* Krasilov, Paläontol. Abh., Abt. B, Paläobot. 181: 6. pl. 1: f. 7-11; text f. 1: a-c. 1982.
Type: Mongolia. Erdeni-Ula, 213-25, *N 3787/500*. Herbarium not specified by author.

+*M. plumatus* B. A. Thomas, Ann. Bot. (London) 36: 159. pl. 1. 1972.
Type: United Kingdom. England: Drybrook Sandstone at Hazel Hill Quarry, near Puddlebrook, Forest of Dean, Gloucestershire, (Visean), *British Museum No. V.56288*. Holotype: BM.

+*M. ritchiei* Kuc, Canad. J. Earth Sci. 11: 411. f. 4: d-f. 1974.
Type: Canada. British Columbia: 9 km N of Princeton, Allenby Formation (Mid-Eocene), *Hills GSC-34744*. Holotype: Natl. Type Fossil Coll., Geol. Surv. Canada.

Muscites, continued.

+*M. samchakianus* Srebrodol'skaya, Trudy Vsesojuzn. Nauchno-Issl. Geol. Inst. 204: 28. pl. 5: f. 3, pl. 6: f. 1. 1980.
Type: U.S.S.R. Siberia, West Transbaikal, Ingoda River, Lower Cretaceous, *Srebrodolskaja*, 1974. Holotype: Central Scientific Research Geological-Prospecting Museum, Leningrad.

+*M. steerei* Kuc, Canad. J. Earth Sci. 11: 414. f. 7. 1974.
Type: Canada. British Columbia: 9 km N of Princeton, Allenby Formation (Mid-Eocene), *Hills GSC-34747*. Holotype: Natl. Type Fossil Coll., Geol. Surv. Canada.

+*M. wilcoxensis* Wittlake, Amer. Midl. Naturalist 80: 546. f. 1-2. 1968.
Type: U.S.A. Arkansas: Greene Co., 1.5 miles E of Hooker, N portion of Crowley's Ridge, upper Wilcox Formation (Lower Eocene), *Arkansas State Univ. H670476B*. Holotype: STAR.

Muscoflorschuetzia Crosby, Bryologist 81: 338. 1978.
Replaced name: *Florschuetzia* Crosby, 1977.
Blocking name: *Florschuetzia* Germeraad, Hopping & J. Muller, 1968.
M. pilmaiquen (Crosby) Crosby, Bryologist 81: 338. 1978.
Basionym: *Florschuetzia pilmaiquen* Crosby, 1977.

Muscoherzogia Ochyra, J. Bryol. 12: 32. 1982.
Replaced name: *Valdiviella* Thériot & Herzog in Herzog, 1928.
Blocking name: *Valdiviella* A. F. W. Schimper in Karsten, 1907.
M. pauperculata (Thériot & Herzog in Herzog) Ochyra, J. Bryol. 12: 32. 1982.
Basionym: *Valdiviella pauperculata* Thériot & Herzog in Herzog, 1928.

Myurella Bruch & W. P. Schimper in B.S.G., 1853.
M. brevicosta Lou Jian-shing & Wu Pan-cheng, Acta Phytotax. Sin. 18: 125. f. 4: 1-8. 1980.
Type: China. Xizang: Dinggye. 2400 m, *Ne 143*. Holotype: PE.
M. careyana Sullivant in Sullivant & Lesquereux, 1856 [1857].
M. careyana var. *tenella* Habeeb, Rhodora 54: 156. 1952.
Other use: *Myurella sibirica* var. *tenella* (Habeeb) H. Crum, Steere & L. E. Anderson, 1964.
M. sibirica (C. Müller) Reimers, 1937.
M. sibirica var. *tenella* (Habeeb) H. Crum, Steere & L. E. Anderson, Bryologist 67: 163. 1964.
Basionym: *Myurella careyana* var. *tenella* Habeeb, 1952.

Myurium W. P. Schimper, 1860.
M. assimile (Brotherus) Seki, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 12: 73. 1968.
Basionym: *Clastobryum assimile* Brotherus, 1929.
M. borii (Dixon) Magill, J. Hattori Bot. Lab. 48: 68. 1980.
Basionym: *Symphysodontella borii* Dixon, 1937.

Myurium, continued.
M. chrysophyllum (Cardot) Seki, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 12: 72. 1968.
Basionym: *Pylaisaea chrysophylla* Cardot, 1905.
M. doii (Sakurai) Iwatsuki in Inoue, Himeno & Iwatsuki, J. Hattori Bot. Lab. 44: 203. 1978.
Basionym: *Homomallium doii* Sakurai, 1932.
M. katoi (Brotherus) Seki, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 12: 72. 1968.
Basionym: *Clastobryum katoi* Brotherus, 1921.
M. praenitens Dixon, Ann. Bryol. 12: 54. 1939.
Other use: *Oedicladium praenitens* (Dixon) Iwatsuki, 1979.
M. pseudorufescens (Hampe) Maschke, Bryoph. Biblioth. 6: 136. 1976.
Basionym: *Hypnum pseudorufescens* Hampe, 1872.
M. pseudorufescens subsp. *acroporioides* (Dixon) Maschke, Bryoph. Biblioth. 6: 148. 1976.
Basionym: *Piloecium acroporioides* Dixon, 1935.
M. quinquefarium Thériot, Rev. Bryol. 48: 27. 1921.
Other use: *Oedicladium quinquefarium* (Thériot) Iwatsuki, 1979.
M. rufescens (Reinwardt & Hornschuch) Fleischer, 1908.
M. rufescens subsp. *purpuratum* (Mitten in Seemann) Maschke, Bryoph. Biblioth. 6: 48. 1976.
Basionym: *Oedicladium purpuratum* Mitten in Seemann, 1873.
M. rufescens subsp. *yakushimense* (Sakurai) Maschke, Bryoph. Biblioth. 6: 56. 1976.
Basionym: *Acroporium yakushimense* Sakurai, 1933.
M. subnitens Dixon, Bull. Torrey Bot. Club 51: 234. 1924.
Other use: *Oedicladium subnitens* (Dixon) Iwatsuki, 1979.
M. tortifolium Chen Pan-chieh, Repert. Spec. Nov. Regni Veg. 58: 26. f. 2. 1955.
Other use: *Oedicladium tortifolium* (Chen Pan-chieh) Iwatsuki, 1979.

Myuroclada Bescherelle, 1893.
M. rotundifolia (H. Arnell) A. L. Abramova & I. I. Abramov, Taxon 18: 350. 1969.
Basionym: *Helicodontium rotundifolium* H. Arnell, 1913.

Nanobryum Dixon, 1922.
**N. drummondii* Wijk, Margadant & Florschütz, Regnum Veg. 33: 430 (Ind. Musc. 3: 430). 1964.
*invalid, orthographic variant (Article 75.1).
Correct name: *Nanobryum dummeri* Dixon, 1922.
N. gladiolum (Mitten) Bizot, Rev. Bryol. Lichénol. 38: 593. 1971-72 [1973].
Basionym: *Fissidens gladiolus* Mitten, 1860.

Nanobryum, continued.
N. thorsbornei Stone, J. Bryol. 12: 199. f. 1-2: a-d, 3-4: i-p. 1982.
Type: Australia. Queensland: Kirrama State Forest near Cardwell, 600 m, *Stone 15000*. Holotype: BRI; isotypes: BM, MEL, MELU.
Other use: *Fissidens thorsbornei* (Stone) Bruggeman-Nannenga in Bruggeman-Nannenga & Berendsen in Bruggeman-Nannenga, 1988.

Nanomitrium Lindberg, 1874.
N. austinii (Sullivant in Austin) Lindberg, 1874.
N. austinii var. *floridanum* Grout, Moss Fl. N. Amer. 2: 71. 1935.
Other use: *Micromitrium austinii* var. *floridanum* (Grout) Crosby, 1968.
N. moravicum Podpera, Sborn. Klubu Prír. v Brne 1921(4): 32. illustration. 1921.
Other use: *Micromitrium tenerum* var. *moravicum* (Podpera) Crosby, 1968.
N. tenerum (Bruch & W. P. Schimper) Lindberg, 1874.
N. tenerum var. *longifolium* Limpricht, Laubm. Deutschl. 1: 164. 1885.
Replaced name: *Ephemerum longifolium* Philibert, 1878.
Blocking name: *Ephemerum longifolium* W. P. Schimper, 1860.
Other use: *Micromitrium tenerum* var. *longifolium* (Limpricht) Crosby, 1968.
N. tenerum var. *nanum* C. Douin, Mém. Soc. Sci. Nat. Cherbourg 35: 285. 1906.
Other use: *Micromitrium tenerum* var. *nanum* (C. Douin) Crosby, 1968.
N. thelephorothecum Florschütz, Fl. Suriname 6(1): 175. f. 67. 1964.
Type: Surinam, *Florschütz 2253*. Holotype: U. Paratype cited.
Other use: *Micromitrium thelephorothecum* (Florschütz) Crosby, 1968.

Neacroporium Iwatsuki & Noguchi, J. Hattori Bot. Lab. 34: 226. 1971.
Type: *Acroporium flagelliferum* Sakurai, *N. flagelliferum* (Sakurai) Iwatsuki & Noguchi, holotype.
Original placement: Sematophyllaceae.
N. flagelliferum (Sakurai) Iwatsuki & Noguchi, J. Hattori Bot. Lab. 34: 226. 1971.
Basionym: *Acroporium flagelliferum* Sakurai, 1934.

Neckera Hedwig, 1801, conserved name.
N. subsect. *Meteoridium* C. Müller, Syn. Musc. Frond. 2: 672. 1851.
Other use: *Meteoridium* (C. Müller) Manuel, 1977.
N. aptychoides Schliephacke ex C. Müller, Bot. Zeitung (Berlin) 15: 382. 1857.
Other use: *Sematophyllum aptychoides* (Schliephacke ex C. Müller) Buck, 1982.
N. aurea Schwägrichen, Sp. Musc. Frond., Suppl. 3 1(1): 217: b. 1827.
Replaced name: *Pterogonium aureum* W. J. Hooker, 1819.
Blocking name: *Pterogonium aureum* (Bridel ex Palisot de Beauvois) Schwägrichen, 1811.
Other use: *Platygyriella aurea* (Schwägrichen) Buck, 1984.
Note: new name, based on adoption of earlier epithet (Article 72.Note 1).

Neckera, continued.

N. beccariana Hampe, Nuovo Giorn. Bot. Ital. 4: 282. 1872.
Other use: *Neckeropsis beccariana* (Hampe) Touw in Touw & Ochyra, 1987.

N. bescherellei Noguchi in Iwatsuki, J. Hattori Bot. Lab. 46: 300. 1979.
Replaced name: *Neckera brachyclada* Bescherelle, 1892.
Blocking name: *Neckera brachyclada* (Bridel) C. Müller, 1850.

N. bhutanensis Noguchi in H. Hara, Univ. Mus. Univ. Tokyo Bull. 2: 251. f. 26. 1971.
Type: Bhutan. Chimakhothi-Thimphu, 2150-2250 m, *Hara et al.*, 1967. Holotype: NICH.

**N. brachyclada* Bescherelle, Ann. Sci. Nat. Bot., ser. 7, 15: 75. 1892.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Neckera brachyclada* (Bridel) C. Müller, 1850.
Correct name: *Neckera bescherellei* Noguchi in Iwatsuki, 1979.

N. breviuscula C. Müller ex Dusén, Kongl. Svenska Vetensk. Acad. Handl. 28(2): 38. pl. 1: f. 3. 1895.
Other use: *Calyptothecium acutifolium* var. *breviusculum* (C. Müller ex Dusén) Argent, 1973 [1974].

N. capillacea Griffith, Calcutta J. Nat. Hist. 3: 70. 1843, "*copillacea*."
Other use: *Gammiella capillacea* (Griffith) Tixier, 1977.

N. comes Griffith, Calcutta J. Nat. Hist. 3: 71. 1843.
Other use: *Isotheciopsis comes* (Griffith) Noguchi, 1970.

N. commutata C. Müller, Bot. Zeitung (Berlin) 15: 385. 1857.
Other use: *Donnellia commutata* (C. Müller) Buck, 1988, *Meiotheciopsis commutata* (C. Müller) Buck, 1982.

N. curvirostris Schwägrichen, Sp. Musc. Frond., Suppl. 3 1(2): 230: b. 1828.
Other use: *Pylaisiadelpha curvirostris* (Schwägrichen) Buck, 1984.

N. domingensis Sprengel, Syst. Veg. Fl. Peruv. Chil. 4(1): 185. 1827.
Other use: *Pseudocryphaea domingensis* (Sprengel) Buck, 1980 [1981].

N. fruticosa Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 122. 1859.
Other use: *Thamnobryum fruticosum* (Mitten) Gangulee, 1976.

N. hoehnelii C. Müller, Flora 73: 489. 1890.
Other use: *Calyptothecium hoehnelii* (C. Müller) Argent, 1973 [1974].

N. latifolia Lindberg in C. Müller, Bot. Zeitung (Berlin) 17: 247. 1859.
Other use: *Meteorium illecebrum* var. *latifolium* (Lindberg in C. Müller) Menzel in Schultze-Motel & Menzel, 1987.

N. leucocolea Mitten, J. Linn. Soc., Bot. 12: 457. 1869.
Other use: *Cryphaea leucocolea* (Mitten) H. Robinson, 1972.

N. longiuscula C. Müller ex Dusén, Kongl. Svenska Vetensk. Acad. Handl. 28(2): 38. f. a-b. pl. 1: f. 4. 1895.
Other use: *Calyptothecium acutifolium* var. *longiusculum* (C. Müller ex Dusén) Argent, 1973 [1974].

N. macrocarpa Bridel, Bryol. Univ. 2: 233. 1827.
Other use: *Thamnobryum macrocarpum* (Bridel) Gangulee, 1976.

Neckera, continued.

N. menziesii W. J. Hooker in Drummond, Musci Amer., Brit. N. Amer. 162. 1828.

Other use: *Metaneckera menziesii* (W. J. Hooker in Drummond) Steere, 1967.

N. missionum Sehnem, Pesquisas, Bot. 34: 87. pl. 3: a. 1980.

Type: Brazil. Rio Grande do Sul: Sao Luiz das Missoes, Bossoroca, 300 m, *Sehnem 6225*. Herbarium not specified by author.

N. octangula C. Müller, Syn. Musc. Frond. 2: 668. 1851.

Other use: *Glyphothecium sciuroides* fo. *octangulum* (C. Müller) Hattaway, 1984.

N. parvula Mitten, J. Proc. Linn. Soc., Bot., Suppl., 1: 123. 1859.

Other use: *Thamnobryum parvulum* (Mitten) R. S. Chopra, 1977.

N. phyllogonioides Sullivant, Proc. Amer. Acad. Arts 3: 181. 1854.

Other use: *Cryptogonium phyllogonioides* (Sullivant) Isoviita, 1986, *Pursellia phyllogonioides* (Sullivant) Lin Shan-Hsiung, 1984.

N. regnelliana C. Müller, Syn. Musc. Frond. 2: 68. 1851 [1850].

Other use: *Mesonodon regnellianus* (C. Müller) Buck, 1980.

N. semitorta C. Müller, Syn. Musc. Frond. 2: 671. 1851.

Note: not in Index Muscorum.

+*N. shanwanica* Wu Pan-cheng & Feng Yung-hua, Zhong Guo Zhi Wu Hua Shi 3: 2. pl. 1: 1, 4. 1978.

Type: China. Chandong: Linqu County, Shanwang, *Feng s.n.* Holotype: PE.

N. subrecta Mitten, J. Proc. Linn. Soc., Bot. 8: 7. 1864.

Other use: *Homalia lusitanica* var. *subrecta* (Mitten) Düll-Hermanns, 1986.

N. subserrata W. J. Hooker, Icon. Pl. 1: pl. 21: f. 7. 1836.

Other use: *Thamnobryum subserratum* (W. J. Hooker) Noguchi & Iwatsuki, 1972.

Neckeradelphus Lazarenko, Bot. Zurn. (Kiev) 2(1): 86. 1941 [March].

Type: *N. varians* Laxarenko, holotype.

Original placement: Pterobryaceae.

Note: not in Index Muscorum.

N. varians Lazarenko, Bot. Zhurn. (Kiev) 2(1): 87. f. 1. 1941.

Note: not in Index Muscorum.

***Neckeradelphus** Steere, Bryologist 44: 147. 1941 [Dec].

*illegitimate, later homonym (Article 64.1).

Earlier name: *Neckeradelphus* Lazarenko, 1941 [Mar].

Correct name: *Metaneckera* Steere, 1967.

Neckeropsis Reichardt, 1870.

N. beccariana (Hampe) Touw in Touw & Ochyra, Lindbergia 13: 103. 1987.

Basionym: *Neckera beccariana* Hampe, 1872.

N. boniana (Bescherelle) Touw & Ochyra, Lindbergia 13: 101. 1987.

Basionym: *Porotrichum bonianum* Bescherelle, 1887.

Neckeropsis, continued.
N. darjeelingensis Gangulee, Mosses E. India 5: 1398. f. 689. 1976.
Type: India. Darjeeling, Kurseong subdistr., Sittong, 1000 m, *Gangulee 6216*. Holotype: "herb. Gangulee."
N. gracilis Noguchi, Lindbergia 1: 177. f. 2. 1972.
Type: Thailand. Chantaburi, Kao Sabab, at Chantaburi, 1-300 m, *Soeresen et al. 7254a p.p.* Holotype: C; isotype: herb. Noguchi.
N. takahashii Higuchi et al., Nova Hedwigia 48: 432. pl. 1. 1989.
Type: China. Yunnan: Simao, near Pu Yuan River, *Takahashi 130*. Holotype: HIRO; isotypes: KRAM, KUN.
N. touwii Ochyra, Ann. Bot. Fenn. 26: 128. f. 1-2. 1989.
Type: Papua New Guinea. Gulf: Hepataewa, 5 km S of Kaintiba, 1000 m, *Streimann 33754*. Holotype: CANB; isotypes: H, KRAM.

Nematocladia Buck, Brittonia 34: 414. 1982.
Type: *N. tesserata* Buck, holotype.
Original placement: Myriniaceae.
N. tesserata Buck, Brittonia 34: 414. f. 1-9. 1982.
Type: Mexico. Tamaulipas: along road from Soto la Marina to Cd. Victoria, near k-76, 1900 feet, *Magill 2672*. Holotype: TENN; isotype: NY.

Neobarbella Noguchi, 1948.
N. amoena (Fleischer ex Brotherus) Lou Jian-shing, Acta Bot. Yunnan. 11: 161. 1989.
Basionym: *Barbella amoena* Fleischer ex Brotherus, 1906.
Note: valid, error of bibliographic citation of basionym (Article 33.2), "*Meteorium amoema*."
N. serratiacuta Lou Jian-shing, Acta Bot. Yunnan. 11: 161. f. 1-7. 1989.
Type: China. Yunnan: Gongshan, 2100 m, *Wang 9122*. Holotype: PE.

Neodolichomitra Noguchi, 1937.
N. robusta (Brotherus) Noguchi, Bryologist 69: 232. 1966.
Basionym: *Penzigiella robusta* Brotherus, 1923.
N. yunnanensis (Bescherelle) T. Koponen, Hikobia 6: 53. 1971.
Basionym: *Hylocomium yunnanense* Bescherelle, 1892.

Neohyophila H. Crum, Bryologist 68: 470. 1965 [1966].
Replaced name: *Hyophilopsis* H. Crum, 1965.
Blocking name: *Hyophilopsis* Cardot & Dixon, 1911.
N. lingulata (Cardot) H. Crum, Bryologist 68: 470. 1965 [1966].
Basionym: *Hyophila lingulata* Cardot, 1910.
N. spathulifolia (E. B. Bartram) H. Crum, Bryologist 68: 470. 1965 [1966].
Basionym: *Desmatodon spathulifolius* E. B. Bartram, 1947.
N. sprengelii (Schwägrichen) H. Crum, Bryologist 68: 470. 1965 [1966].
Basionym: *Barbula sprengelii* Schwägrichen, 1823.

Neohyophila, continued.
N. sprengelii var. *stomatodonta* (Cardot) Zander, Bryologist 86: 138. 1983.
Basionym: *Hyophila stomatodonta* Cardot, 1909.
N. stomatodonta (Cardot) H. Crum, Bryologist 68: 470. 1965 [1966].
Basionym: *Hyophila stomatodonta* Cardot, 1909.

Neolescuraea Noguchi, J. Hattori Bot. Lab. 36: 521. 1972.
Type: *Lescuraea robusta* S. O. Lindberg, *N. robusta* (S. O. Lindberg) Noguchi, holotype.
Original placement: Leskeaceae.
N. arcuata Noguchi, J. Hattori Bot. Lab. 36: 523. f. 8. 1972.
Type: Japan [Houshu]. Yamanashi: Sendyogatake, 2600 m, *Takaki*, 1950. Holotype: NICH.
Other use: *Rigodiadelphus arcuatus* (Noguchi) Noguchi, 1973.
N. robusta (Lindberg) Noguchi, J. Hattori Bot. Lab. 36: 523. 1972.
Basionym: *Lescuraea robusta* Lindberg, 1872.

Neolindbergia Fleischer, 1908.
N. brassii E. B. Bartram, Brittonia 9: 44. 1957.
Other use: *Neolindbergia deningeri* var. *brassii* (E. B. Bartram) Noguchi, 1975.
N. deningeri Herzog, 1916.
N. deningeri var. *brassii* (E. B. Bartram) Noguchi, J. Hattori Bot. Lab. 39: 335. 1975.
Basionym: *Neolindbergia brassii* E. B. Bartram, 1957.
N. densiramea Noguchi, Misc. Bryol. Lichenol. 6: 137. f. 10. 1974.
Type: Papua New Guinea. Dauro Pass, Goroka, *Yobayashi 13981*. Holotype: TNS.
N. plicata Stark & Buck, Brittonia 38: 49. 1986.
Replaced name: *Forsstroemia rigida* Dixon, 1943.
Blocking name: *Neolindbergia rigida* (Bosch & Sande Lacoste) Fleischer, 1908.
N. rigida (Bosch & Sande Lacoste) Fleischer, 1908.
N. semitorta Noguchi, Bull. Natl. Sci. Mus. 16: 297. f. 1. 1973.
Type: Malaysia [Malay Peninsula]. Pahang: around Robinson's Fall, Cameron Highlands, 4000-5000 feet, *Inoue 16585*. Holotype: TNS; isotype: NICH.

Neomacounia Ireland, Bryologist 77: 454. 1974.
Type: *Forsstroemia nitida* S. O. Lindberg, *N. nitida* (S. O. Lindberg) Ireland, holotype.
Original placement: Neckeraceae.
N. nitida (Lindberg) Ireland, Bryologist 77: 457. 1974.
Basionym: *Forsstroemia nitida* Lindberg, 1869.

Neomeesia Deguchi, Bull. Natl. Sci. Mus. 9: 147. 1983.
Type: *Dichodontium paludella* Bescherelle, *N. paludella* (Bescherelle) Deguchi, holotype.
Original placement: Meesiaceae.
N. paludella (Bescherelle) Deguchi, Bull. Natl. Sci. Mus., Ser. B, Bot. 9: 147. 1983.
Basionym: *Dichodontium paludella* Bescherelle, 1885.

Neonoguchia Lin Shan-Hsiung, Yushania 5: 27. 1988.
Type: *Aerobryopsis auriculata* Coppey ex Thériot, *N. auriculata* (Coppey ex Thériot) Lin Shan-Hsiung, holotype.
Original placement: Meteoriaceae.
N. auriculata (Coppey ex Thériot) Lin Shan-Hsiung, Yushania 5: 27. 1988.
Basionym: *Aerobryopsis auriculata* Coppey ex Thériot, 1926.

Neopogonatum Xu Wen-xuan & Xiong Ruo-li, Acta Bot. Yunnan. 6: 173. 1984.
Type: *N. semiangulatum* Xu Wen-yuan & Xiong Ruo-li, holotype.
Original placement: Polytrichaceae.
N. semiangulatum Xu Wen-xuan & Xiong Ruo-li, Acta Bot. Yunnan. 6: 174. f. 1. 1984.
Type: China. Yunnan: Xichou Xian, Fadou, Cao-guo-ging, 1550 m, *Zhu 78001*. Holotype: YUKU.
N. tibeticum Xu Wen-xuan & Xiong Ruo-li, Acta Bot. Yunnan. 6: 177. f. 3. 1984.
Type: China. Xizang: Zayu, 2350 m, *Wu 1806*. Holotype: YUKU.
N. yunnanense Xu Wen-xuan & Xiong Ruo-li, Acta Bot. Yunnan. 6: 176. f. 2. 1984.
Type: China. Yunnan: Jinping Xian, Fen-shui-lao-ling, 2300 m, *Zhu 5812*. Holotype: YUKU.

Neorutenbergia Bizot & Pócs in Bizot, Pierrot & Pócs, Rev. Bryol. Lichénol. 40: 27. 1974.
Type: *N. armata* Bizot & Pócs in Bizot, holotype.
Original placement: Rutenbergiaceae.
N. armata Bizot & Pócs in Bizot, Pierrot & Pócs, Rev. Bryol. Lichénol. 40: 27. pl. 2-3. 1974.
Type: Tanzania. Kilosa distr., Ukaguru Mts., *Pócs 6871/E*. Holotype: PC; isotypes: BP, EGR.
N. usagarae (Dixon) Bizot & Pócs, Egri Ho Si Minh Tanárképzõ Föiskola Füzetei 12: 444. 1974.
Basionym: *Rutenbergia usagarae* Dixon, 1919.

Neosharpiella H. Robinson & Delgadillo M., Bryologist 76: 537. 1973.
Type: *N. aztecorum* H. Robinson & Delgadillo M., holotype.
Original placement: Funariaceae.

Neosharpiella, continued.

N. aztecorum H. Robinson & Delgadillo M., Bryologist 76: 537. f. 1-8. 1973.
Type: Mexico. Tlaxcala: N facing slope of La Malinche, *Delgadillo 2599a*. Holotype: US; isotype: MEXU.

N. turgida (Mitten) H. Robinson & Delgadillo M., Bryologist 76: 539. 1973.
Basionym: *Physcomitrium turgidum* Mitten, 1869.

Neuroloma Cardot, 1911.

N. fuegianum Cardot, Rev. Bryol. 38: 50. f. a-j. 1911.
Other use: *Andreaea fuegiana* (Cardot) S. W. Greene, 1972 [1973].

Noguchiodendron Ninh & Pócs, Acta Bot. Acad. Sci. Hung. 27: 161. 1981.
Type: *Homaliodendron sphaerocarpum* Noguchi, *N. sphaerocarpum* (Noguchi) Ninh & Pócs, holotype.
Original placement: Neckeraceae.

N. sphaerocarpum (Noguchi in H. Hara) Ninh & Pócs, Acta Bot. Acad. Sci. Hung. 27: 164. 1981.
Basionym: *Homaliodendron sphaerocarpum* Noguchi in H. Hara, 1966.

Notoligotrichum G. L. Smith, Mem. New York Bot. Gard. 21(3): 50. 1971.
Type: *Polytrichum australe* J. D. Hooker, *N. australe* (J. D. Hooker) G. L. Smith, holotype.
Original placement: Polytrichaceae.

N. angulatum (Cardot & Brotherus) G. L. Smith, Mem. New York Bot. Gard. 21(3): 51. 1971.
Basionym: *Psilopilum angulatum* Cardot & Brotherus, 1923.

N. australe (J. D. Hooker & Wilson) G. L. Smith, Mem. New York Bot. Gard. 21(3): 51. 1971.
Basionym: *Polytrichum australe* J. D. Hooker & Wilson, 1854.

N. bellii (Brotherus) G. L. Smith, Mem. New York Bot. Gard. 21(3): 51. 1971.
Basionym: *Psilopilum bellii* Brotherus, 1898.

N. crispulum (J. D. Hooker & Wilson) G. L. Smith, Mem. New York Bot. Gard. 21(3): 51. 1971.
Basionym: *Polytrichum crispulum* J. D. Hooker & Wilson, 1854.
Note: valid, error of bibliographic citation of basionym (Article 33.2), "*Psilopilum crispulum*."

N. laxifolium (Dixon in Christophersen) G. L. Smith, Mem. New York Bot. Gard. 21(3): 51. 1971.
Basionym: *Psilopilum laxifolium* Dixon in Christophersen, 1960.

N. mexicanum (G. L. Smith) G. L. Smith, Mem. New York Bot. Gard. 21(3): 51. 1971.
Basionym: *Psilopilum mexicanum* G. L. Smith, 1969.

N. minimum (Cardot) G. L. Smith, Mem. New York Bot. Gard. 21(3): 51. 1971.
Basionym: *Polytrichadelphus minimus* Cardot, 1905.

Notoligotrichum, continued.
N. tapes (C. Müller in Neumayer) G. L. Smith, Mem. New York Bot. Gard. 21(3): 51. 1971.
Basionym: *Catharinea tapes* C. Müller in Neumayer, 1890.
N. trichodon (J. D. Hooker & Wilson in Wilson) G. L. Smith, Mem. New York Bot. Gard. 21(3): 51. 1971.
Basionym: *Polytrichum trichodon* J. D. Hooker & Wilson in Wilson, 1847.
N. tristaniense (Dixon in Christophersen) G. L. Smith, Mem. New York Bot. Gard. 21(3): 51. 1971.
Basionym: *Psilopilum tristaniense* Dixon in Christophersen, 1960.

Ochrobryum Mitten, 1869.
O. crumii H. Robinson, Bryologist 68: 92. f. 15-21, 23. 1965.
Type: Mexico. Jalisco: La Cumbre, 10 miles SW of Autlan, 3600 feet, *Crum 1247*. Holotype: US; isotypes: F, MICH.
O. herzogianum B. C. Tan & Mohamed in Mohamed & B. C. Tan, Bryologist 91: 29. 1988.
Replaced name: *Ochrobryum microphyllum* Cardot ex Herzog, 1919.
Blocking name: *Ochrobryum microphyllum* (Bescherelle) Cardot, 1901.
**O. microphyllum* Cardot ex Herzog, Hedwigia 61: 295. 1919.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Ochrobryum microphyllum* (Bescherelle) Cardot, 1901.
Correct name: *Ochrobryum herzogianum* B. C. Tan & Mohamed in Mohamed & B. C. Tan, 1988.
O. propaguliferum Dixon, Notes Roy. Bot. Gard. Edinburgh 19: 281. f. 1. 1938.
Other use: *Leucobryum propaguliferum* (Dixon) H. Robinson, 1965.

Ochyraea Vana, J. Bryol. 14: 261. f. 1-3. 1986.
Type: *O. tatrensis* Vana, holotype.
Original placement: Hypnobartlettiaceae.
O. tatrensis Vana, J. Bryol. 14: 261. f. 1-3. 1986.
Type: Czechoslovakia. Nizke Tatry Mts., Vajskovska Valley, 1650 m, *Vana*, 1985. Holotype: PCR; isotypes: ALTA, BM, BRNM, DUIS, F, G, H, JE, KRAM, LGHF, NICH, NY, SLO, TNS, U.

Octoblepharum Hedwig, 1801.
O. asperum Mitten, J. Linn. Soc., Bot. 10: 178. 1868.
Other use: *Exostratum asperum* (Mitten) L. Ellis, 1985.
O. brevisetum C. C. Townsend, Trans. Brit. Bryol. Soc. 4: 434. f. 1. 1963.
Type: Nigeria. Calabar/Oban district, SE Nigeria, *Cooper*, 1961. Herbarium not specified by author.
O. costatum H. Crum in Mägdefrau, Nova Hedwigia 38: 54. f. 3. 1983.
Type: Colombia. Quibdo, below Lloro at the Rio Atrato, 75 m, *Mägdefrau 1482*. Holotype: MICH; isotype: M.
O. papillosum Mitten, J. Linn. Soc., Bot. 10: 179. 1868.
Other use: *Exostratum asperum* var. *papillosum* (Mitten) L. Ellis, 1985.

Oedicladium Mitten, 1868 [1869].
O. doii (Sakurai) Iwatsuki, J. Hattori Bot. Lab. 46: 273. 1979.
Basionym: *Homomallium doii* Sakurai, 1932.
O. praenitens (Dixon) Iwatsuki, J. Hattori Bot. Lab. 46: 267. 1979.
Basionym: *Myurium praenitens* Dixon, 1939.
O. pseudorufescens B. C. Tan & Mohamed in Mohamed & B. C. Tan, Bryologist 91: 32. 1988.
O. purpuratum Mitten in Seemann, Fl. Vit. 393. 1873.
Other use: *Myurium rufescens* subsp. *purpuratum* (Mitten in Seemann) Maschke, 1976.
O. quinquefarium (Thériot) Iwatsuki, J. Hattori Bot. Lab. 46: 267. 1979.
Basionym: *Myurium quinquefarium* Thériot, 1921.
O. rufescens (Reinw. & Hornsch.) Mitten, 1868.
O. rufescens var. *yakushimense* (Sakurai) Iwatsuki, J. Hattori Bot. Lab. 46: 269. 1979.
Basionym: *Acroporium yakushimense* Sakurai, 1933.
O. serricuspe (Brotherus) Noguchi & Iwatsuki, Misc. Bryol. Lichenol. 9: 199. 1983.
Basionym: *Pylaisaea serricuspis* Brotherus, 1921.
O. subnitens (Dixon) Iwatsuki, J. Hattori Bot. Lab. 46: 267. 1979.
Basionym: *Myurium subnitens* Dixon, 1924.
O. tortifolium (Chen Pan-chieh) Iwatsuki, J. Hattori Bot. Lab. 46: 267. 1979.
Basionym: *Myurium tortifolium* Chen Pan-chieh, 1955.

Oedipodium Schwägrichen, 1823.
O. fuegianum Kuhnemann & Goncalves-Carralves, Darwiniana 22: 128. pl. 1-3. 1979.
Type: Argentina. Tierra del Fuego: Lapataia, *Pallares*, 1975. Holotype: CIBIMA.

Okamuraea Brotherus, 1906.
O. filipendula Dixon ex Lazarenko, Bot. Zhurn. (Kiev) 2: 208. 1945.
Note: not in Index Muscorum.

Oligotrichum A. P. de Candolle in Lamarck & A. P. de Candolle, 1805.
O. afrolaevigatum (Dixon) G. L. Smith, Phytologia 18: 403. 1969.
Basionym: *Psilopilum afrolaevigatum* Dixon, 1920.
O. austroaligerum G. L. Smith, Phytologia 18: 403. 1969.
Replaced name: *Oligotrichum magellanicum* Cardot & Brotherus, 1923.
Blocking name: *Oligotrichum magellanicum* (Hedwig) Kindberg, 1888.
O. cavallii (Negri) G. L. Smith, Mem. New York Bot. Gard. 21(3): 53. 1971.
Basionym: *Catharinea cavallii* Negri, 1908.

Oligotrichum, continued.

O. crossidioides Chen Pan-chieh & Wan Thung-ling ex Xu Wen-xuan & Xiong Ruo-li, Acta Bot. Yunnan. 6: 179. f. 5. 1984.
Type: China. Yunnan: Lushui Xian, Pianma-Yakou, 3150 m, *Hu 78097*. Holotype: YUKU.
Note: invalid, cited as synonym (Article 34.1), in Chen Pan-chieh, Gen. Musc. Sin. 2: 311. 1978.

O. falcatum Steere, Bryologist 61: 115. f. 1-9. 1958.
Other use: *Psilopilum falcatum* (Steere) H. Crum, Steere & L. E. Anderson, 1965 [1966].

O. falcifolium (Griffith) G. L. Smith, Phytologia 18: 403. 1969.
Basionym: *Polytrichum falcifolium* Griffith, 1842.

**O. magellanicum* Cardot & Brotherus, Kongl. Svenska Vetensk. Acad. Handl. 63(10): 71. pl. 4: f. 2. 1923.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Oligotrichum magellanicum* (Hedwig) Kindberg, 1888.
Correct name: *Oligotrichum austroaligerum* G. L. Smith, 1969.

O. nepalense G. L. Smith, J. Hattori Bot. Lab. 41: 420. f. 1-9. 1976.
Type: Nepal. Kipuphu-Phujeng La, 4600 m, *Iwatsuki 1722*. Holotype: NICH; isotype: NY.

O. novae-guineae (E. B. Bartram) G. L. Smith, Mem. New York Bot. Gard. 21(3): 49. 1971.
Basionym: *Atrichum novae-guineae* E. B. Bartram, 1961.

O. semilamellatum (J. D. Hooker in W. J. Hooker) Mitten, 1859.

O. semilamellatum var. *darjeelingense* Gangulee, Mosses E. India 1: 84. f. 34. 1969.
Type: India. Darjeeling, *Gangulee 3579*. Holotype: herb. Gangulee.

O. semilamellatum var. *edentatum* Gangulee, Mosses E. India 1: 87. f. 35. 1969.
Type: India. Darjeeling-Sikkim, 2400 m, *Kurz 2366*. Holotype: BM.

O. semilamellatum var. *falcifolium* (Griffith) Gangulee, Mosses E. India 1: 88. 1969.
Basionym: *Polytrichum falcifolium* Griffith, 1842.

**O. semilamellatum* var. *yuennanense* Brotherus ex Chen Pan-chieh, Gen. Musc. Sin. 2: 311. 1978.
*invalid, no Latin description (Article 36.1).

O. serratomarginatum Lou Jian-shing & Wu Pan-cheng, Acta Phytotax. Sin. 18: 125. f. 4: 9-20. 1980.
Type: China. Xizang: Basu, 4200 m, *Chen & Li 76021*. Holotype: PE.

O. sibiricum Bardunov, Novosti Sist. Niz. Rast. 1968: 303. f. 6-8. 1968.
Type: U.S.S.R. Burjatskaja ASSR, distr. Kabansk, vallis fl. Bolschoi Mamaj, *Bardunov*, 1963. Holotype: IRK; isotype: LE.
Original placement: sect. *Pseudocatharinaea*.

O. suzukii (Brotherus) Chuang Ching-chang, J. Hattori Bot. Lab. 37: 430. 1973.
Basionym: *Pogonatum suzukii* Brotherus, 1928.

O. wageri (Brotherus in Dixon) G. L. Smith, Phytologia 18: 403. 1969.
Basionym: *Psilopilum wageri* Brotherus in Dixon, 1920.

Oncophorus (Bridel) Bridel, 1826.
O. glaucescens Lindberg & H. Arnell, Kongl. Svenska Vetensk. Acad. Handl. 23(10): 93. 1890.
Other use: *Cnestrum glaucescens* (Lindberg & H. Arnell) Holmen ex Mogensen & Steere, 1979.
O. guatemalensis E. B. Bartram, Bryologist 49: 111. 1946.
Other use: *Cynodontium guatemalense* (E. B. Bartram) H. Crum, 1984.
O. riparius H. Lindberg, Meddeland. Soc. Fauna Fl. Fenn. 24: 29. 1900.
Other use: *Kiaeria riparia* (H. Lindberg) Corley, 1979.
O. virens (Hedwig) Bridel, 1826.
O. virens var. *brevifolia* Pilous, Preslia 41: 133. f. 5: 3. 1969.
Type: Czechoslovakia. Slovakia: Belanske Tatry, mons. Bujeci, 2100 m, *Pilous s.n.* Holotype: herb. Pilous.
O. wahlenbergii Bridel, 1826.
O. wahlenbergii var. *perbrevipes* Deguchi & H. Suzuki, Hikobia 7: 35. f. 6. 1974.
Type: Japan [Honshu]. Nara: Shakagadake, *Deguchi 6884*. Holotype: HIRO.

Oreas Bridel, 1826.
O. mexicana Thériot, Smithsonian Misc. Collect. 81(1): 2. f. 1. 1928.
Other use: *Hypnodontopsis mexicana* (Thériot) H. Robinson, 1964.

Oreoweisia (B.S.G.) De Notaris, 1869.
O. delgadilloi H. Robinson & F. D. Bowers, Phytologia 29: 114. 1974.
Type: Mexico. Durango: W of La Ciudad, *Bowers, Delgadillo & Somers 5075*. Holotype: US; isotype: TENN.
O. mexicana H. Robinson, Bryologist 68: 331. f. 1-5. 1965.
Type: Mexico. Guerrero: Tlacotepec, Cerro Teotepec, 3200 m, *Rzedowski 18589*. Holotype: US; isotypes: herb. Reed, herb. Rzedowski.

Orontobryum Mitten ex Fleischer, 1923.
O. recurvulum Hampe ex Gangulee, Mosses E. India 6: 1506. f. 754. 1977.
Type: Bhutan. Khegumpa, 6000 feet, *Griffith 130*. Holotype: BM; isotype: NY.

Orthoamblystegium Dixon & Sakurai, 1936.
O. spuriosubtile (Brotherus & Paris) Kanda & Noguchi, Misc. Bryol. Lichenol. 9: 135. 1982.
Basionym: *Amblystegium spuriosubtile* Brotherus & Paris, 1904.

Orthodicranum (Bruch & W. P. Schimper) Loeske, 1910.
O. mayrii (Brotherus) Smirnova, Novosti Sist. Niz. Rast. 6: 256. 1969 [1970].
Basionym: *Dicranum mayrii* Brotherus, 1899.
O. montanum (Hedwig) Loeske, 1910.
O. montanum fo. *flaccidum* (Wulfsberg) Margadant, Lindbergia 1: 129. 1972.
Basionym: *Dicranum montanum* var. *flaccidum* Wulfsberg, 1876.

Orthodicranum, continued.
O. tauricum (Sapehin) Smirnova, Novosti Sist. Niz. Rast. 6: 256. 1969 [1970].
Basionym: *Dicranum tauricum* Sapehin, 1911.
Note: redundant combination in W. Weber, Phytologia 33: 106. 1976.

Orthomnion Wilson, 1857.
O. sect. *Handeliomnion* T. Koponen, Ann. Bot. Fenn. 17: 41. 1980.
Type: *Mnium handelii* Brotherus, *O. handelii* (Brotherus) T. Koponen, holotype.
O. subsect. *Oligodon* T. Koponen, Ann. Bot. Fenn. 17: 46. 1980.
Type: *Orthotrichum bryoides* Griffith, *O. bryoides* (Griffith) Norkett, holotype.
O. subsect. *Orthomniopsis* (Brotherus) T. Koponen, Ann. Bot. Fenn. 17: 42. 1980.
Basionym: *Orthomniopsis* Brotherus, 1907.
O. elimbatum (Noguchi) T. Koponen, Ann. Bot. Fenn. 17: 45. 1980.
Basionym: *Orthomniopsis elimbata* Noguchi, 1953.
O. handelii (Brotherus) T. Koponen, Ann. Bot. Fenn. 17: 42. 1980.
Basionym: *Mnium handelii* Brotherus, 1929.
O. javense (Fleischer) T. Koponen, Ann. Bot. Fenn. 17: 53. 1980.
Basionym: *Mnium javense* Fleischer, 1904.
O. noguchii T. Koponen, Ann. Bot. Fenn. 17: 49. f. 43-54. 1980.
Type: Nepal. East Nepal, between Shewaden and Papung, 2350 m, *Iwatsuki 2073*. Holotype: H; isotypes: NICH, UBC.
Original placement: subsect. *Oligodon*.
O. piliferum T. Koponen, Ann. Bot. Fenn. 17: 51. f. 63-70. 1980.
Type: China. Taiwan: Ilan County, Mt. Tai-ping-shan, *Chuang 2101*. Holotype: NICH.
Original placement: subsect. *Oligodon*.
O. yunnanense T. Koponen, Li Xing-jiang & Zang Mu, Ann. Bot. Fenn. 19: 73. f. 1-11. 1982.
Type: China. Yunnan: Li Jiang (Likiang) Co., Mt. Yu Long, ca. 2750 m, *Wang 3844*. Holotype: HKAS; isotype: H.

Orthomniopsis Brotherus, 1907.
O. dilatata (Wilson ex Mitten) Noguchi in H. Hara, Fl. E. Himalaya 1: 563. 1966.
Basionym: *Mnium dilatatum* Wilson ex Mitten, 1859.
O. elimbata Noguchi, J. Hattori Bot. Lab. 10: 8. pl. 4: f. 9-13. 1953.
Other use: *Orthomnion elimbatum* (Noguchi) T. Koponen, 1980.
O. petelotii Tixier, Rev. Bryol. Lichénol. 34: 137. f. 7. 1966.
Type: Vietnam. Chapa, 1500 m, *Petelot 142*. Herbarium not specified by author.

Orthorrhynchium Reichardt, 1868, "*Orthorhynchium*."
O. cymbifolioides C. Müller, Flora 82: 458. 1896.
Other use: *Orthorrhynchium elegans* subsp. *cymbifolioides* (C. Müller) Lin Shan-Hsiung, 1983.

Orthorrhynchium, continued.
O. elegans (Hooker & Wilson) Reichardt, 1868.
O. elegans subsp. *cymbifolioides* (C. Müller) Lin Shan-Hsiung, J. Taiwan Mus. 36(2): 83. 1983.
Basionym: *Orthorrhynchium cymbifolioides* C. Müller, 1896.
O. elegans subsp. *nietneri* (C. Müller) Lin Shan-Hsiung, J. Taiwan Mus. 36(2): 80. 1983.
Basionym: *Orthorrhynchium nietneri* C. Müller, 1869.
O. elegans subsp. *tumidum* Lin Shan-Hsiung, J. Taiwan Mus. 36(2): 83. 1983.
Type: New Zealand., *Berggren*, 1874. Holotype: NY.
O. nietneri C. Müller, Linnaea 36: 28. 1869.
Other use: *Orthorrhynchium elegans* subsp. *nietneri* (C. Müller) Lin Shan-Hsiung, 1983.

Orthostichidium C. Müller ex Dusén, 1895.
O. involutifolium (Mitten) Brotherus, 1906.
O. involutifolium subsp. *thomeanum* (Brotherus) Argent, J. Bryol. 7: 595. 1973 [1974].
Basionym: *Hildebrandtiella thomeana* Brotherus, 1890.

Orthostichopsis Brotherus in Engler & Prantl, 1906.
O. latifolia Sehnem, Pesquisas, Bot. 29: 45. pl. 19: f. 1. 1972.
Type: Brazil. Rio Grande do Sul: Sao Francisco de Paula, 900 m, *Sehnem 4579a*. Herbarium not specified by author.
O. pilotrichelloides (Sehnem) B. H. Allen & Crosby, J. Hattori Bot. Lab. 61: 472. 1986.
Basionym: *Squamidium pilotrichelloides* Sehnem, 1980.

Orthotheciadelphus Dixon, 1931.
O. ovicarpus Dixon, J. Bot. 69: 6. pl. 595: f. 5. 1931.
Other use: *Orthothecium ovicarpum* (Dixon) Buck, 1980.

Orthothecium Bruch & W. P. Schimper in B.S.G., 1852, conserved name.
O. diminutivum (Grout) H. Crum, Steere & L. E. Anderson, Bryologist 67: 163. 1964.
Basionym: *Holmgrenia diminutiva* Grout, 1932.
O. ovicarpum (Dixon) Buck, J. Hattori Bot. Lab. 48: 149. 1980.
Basionym: *Orthotheciadelphus ovicarpus* Dixon, 1931.

Orthothuidium Norris & T. Koponen, Acta Bot. Fenn. 131: 23. 1985.
Type: *O. curtisetum* Norris & T. Koponen, holotype.
Original placement: Thuidiaceae.
O. curtisetum Norris & T. Koponen, Acta Bot. Fenn. 131: 23. f. 8: a-f. 1985.
Type: Papua New Guinea. Morobe: Lake Wamba, 5 km S of Teptep airstrip, 2750-2850 m, *Koponen 30944*. Holotype: H, isotypes: HSC, LAE. Paratypes cited. "Isotypes and paratypes shall later be distributed to other herbaria."

Orthotrichum Hedwig, 1801.

O. sect. *Callistoma* Podpera ex Iwatsuki & A. J. Sharp, J. Hattori Bot. Lab. 33: 167. 1970.

Type: *O. callistomum* Fischer-Ooster ex Bruch & W. P. Schimper in B.S.G., holotype.

Note: treated as invalid, no Latin description (Article 36.1), in Index Muscorum and cited from Podpera, Consp. Musc. Eur. 479. 1954.

O. subgen. *Crassifolia* Lewinsky, J. Hattori Bot. Lab. 43: 55. 1977, "*Crassifolium*."

Type: *O. crassifolium* J. D. Hooker & Wilson, holotype.

O. subgen. *Exiguifolia* Vitt, Nova Hedwigia 21: 705. 1971 [1972], "*Exiguifolium*."

Type: *O. exiguum* Sullivant, holotype.

O. sect. *Pulchella* W. P. Schimper, Syn. Musc. Eur. (ed. 2) 2: 334. 1876.

Other use: *Orthotrichum* subgen. *Pulchella* (W. P. Schimper) Vitt, 1971 [1972].

O. subgen. *Pulchella* (W. P. Schimper) Vitt, Nova Hedwigia 21: 709. 1971 [1972], "*Pulchellum*."

Basionym: *Orthotrichum* sect. *Pulchella* W. P. Schimper, 1876.

O. sect. *Rivularia* W. P. Schimper, Syn. Musc. Eur. (ed. 2) 2: 337. 1876.

Other use: *Orthotrichum* subgen. *Rivularia* (W. P. Schimper) Vitt, 1971 [1972].

O. subgen. *Rivularia* (W. P. Schimper) Vitt, Nova Hedwigia 21: 710. 1971 [1972], "*Rivularium*."

Basionym: *Orthotrichum* sect. *Rivularia* W. P. Schimper, 1876.

O. atratum Mitten, J. Linn. Soc., Bot. 15: 66. 1876 [1877].

Other use: *Muelleriella atrata* (Mitten) Vitt, 1979 [1980].

**O. atrofastigiatum* C. Müller ex Wijk, Margadant & Florschütz, Regnum Veg. 48: 493 (Ind. Musc. 4: 493). 1964.

*invalid, orthographic variant (Article 75.1).

Correct name: *Orthotrichum afrofastigiatum* C. Müller, 1899.

O. austrocupulatum Dixon & Sainsbury, J. Bot. 71: 244. 1933.

Other use: *Orthotrichum cupulatum* var. *austrocupulatum* (Dixon & Sainsbury) Lewinsky, 1984.

O. bistratosum (Schiffner) Guerra, Anales Jard. Bot. Madrid 42: 248. 1985.

Basionym: *Orthotrichum cupulatum* var. *bistratosum* Schiffner, 1913.

O. brotheri Dusén ex Lewinsky, Mem. New York Bot. Gard. 45: 348. f. 133-143. 1987.

Type: Chile. Rio Aysen, *Dusén 437*. Holotype: S. Paratype cited.

Original placement: sect. *Leiocarpa*.

O. concavifolium Griffith, Calcutta J. Nat. Hist. 2: 484. 1842.

Other use: *Schoenobryum concavifolium* (Griffith) Gangulee, 1976.

O. crassifolium J. D. Hooker & Wilson, 1844.

O. crassifolium var. *acutum* C. Müller, Syn. Musc. Frond. 1: 691. 1849.

Other use: *Muelleriella crassifolia* var. *acuta* (C. Müller) Vitt, 1976.

Orthotrichum, continued.

O. cupulatum G. F. Hoffmann ex Bridel, 1801.

O. cupulatum var. *austroamericanum* Lewinsky, Lindbergia 10: 69. f. 1-11. 1984 [1985].

Type: Peru. Pasco: along road from Cerro de Pasco to Lima via Canta, N of Huayllay, km 224.4 (N of Lima), 4160 m, *Vitt 21747*. Holotype: ALTA; isotype: C.

O. cupulatum var. *austrocupulatum* (Dixon & Sainsbury) Lewinsky, J. Hattori Bot. Lab. 56: 433. 1984.

Basionym: *Orthotrichum austrocupulatum* Dixon & Sainsbury, 1933.

O. cupulatum var. *bistratosum* Schiffner, Ann. K.K. Naturhist. Hofmus. 27: 492. 1913.

Other use: *Orthotrichum bistratosum* (Schiffner) Guerra, 1985.

O. cupulatum var. *jamesianum* (Sullivant in T. P. James in S. Watson) E. Lawton, Moss Fl. Pacific Northwest 221. 1971.

Basionym: *Orthotrichum jamesianum* Sullivant in T. P. James in S. Watson, 1871.

O. curvatum Bridel, Bryol. Univ. 1: 791. 1827.

Other use: *Grimmia curvata* (Bridel) Sloover, 1967.

O. densum Lewinsky, Mem. New York Bot. Gard. 45: 336. f. 51-62. 1987.

Type: Argentina. Santa Cruz: Peninsula Magallanes, W of Calafate, *Jacobsen s.n.* Holotype: C. Other indicated distribution: Chile.

Original placement: sect. *Leiocarpa*.

O. denticulatum Lewinsky, Bot. Tidsskr. 72: 75. 1978.

Replaced name: *Orthotrichum latifolium* Dixon ex Sappa, 1950.

Blocking name: *Orthotrichum latifolium* Grönvall, 1885.

O. diaphanum Schrader ex Bridel, 1801.

O. diaphanum var. *podocarpi* (C. Müller) Lewinsky, Lindbergia 10: 72. 1984 [1985].

Basionym: *Orthotrichum podocarpi* C. Müller, 1879.

O. epapillosum E. Lawton & F. J. Hermann, Bryologist 76: 437. f. 1-11. 1973.

Type: U.S.A. California: Lassen Co., ca. 21 miles N of Lichtfield, *Hermann 24764*. Holotype: US; isotypes: DUKE, F, MICH, NY, SPA, WTU.

**O. fimbriatum* R. Brown ter, Trans. & Proc. New Zealand Inst. 27: 430. pl. 37: f. 13. 1894 [1895].

*illegitimate, later homonym (Article 64.1).

Earlier name: *Orthotrichum fimbriatum* Palisot de Beauvois, 1805.

Other use: *Orthotrichum rupestre* var. *papillosum* Lewinsky, 1984.

O. flowersii Vitt, Bryologist 74: 159. f. 1-8. 1971.

Type: U.S.A. Utah: Washington Co., Zion Canyon, *Flowers 2584*. Holotype: UT; isotype: MICH.

O. gigantosporum Lewinsky, Lindbergia 14: 183. 1988 [1989].

Replaced name: *Orthotrichum macrosporum* Lewinsky, 1984 [1985].

Blocking name: *Orthotrichum macrosporum* C. Müller, 1898.

O. herteri Herzog, Revista Sudamer. Bot. 5: 19. 1937.

Note: not in Index Muscorum.

Orthotrichum, continued.

O. hortonae Vitt, Bryologist 82: 2. f. 1-9, 62, 64. 1979.
Type: Mexico. Michoacan: Puerto Morelos, 53 km E of Morelia, 2000 m, *Iwatsuki & Sharp 3049*. Holotype: TENN; isotype: ALTA.
Original placement: sect. *Leiocarpa*.

O. jamesianum Sullivant in T. P. James in S. Watson, Botany Fortieth Parallel 18(5): 401. 1871.
Other use: *Orthotrichum cupulatum* var. *jamesianum* (Sullivant in T. P. James in S. Watson) E. Lawton, 1971.

O. laevigatum J. E. Zetterstedt, 1862.

O. laevigatum fo. *macounii* (Austin) E. Lawton & Vitt in E. Lawton, Moss Fl. Pacific Northwest 222. 1971.
Basionym: *Orthotrichum macounii* Austin, 1879.

**O. latifolium* Dixon ex Sappa, Lav. Bot. 10: 2. f. 1. 1950.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Orthotrichum latifolium* Grönvall, 1885.
Correct name: *Orthotrichum denticulatum* Lewinsky, 1978.
Original placement: sect. *Straminea*.

O. latimarginatum Lewinsky, Mem. New York Bot. Gard. 45: 331. f. 14-24. 1987.
Type: Peru. Ancash: Recuay, tributary valley to Laguna Querococha, *Hegewald & Hegewald 7658*. Holotype: C; isotype: EPH. Other indicated distribution: Ecuador.
Original placement: sect. *Rupestria*.

O. lescurii Austin, Musci Appalach. 163. 1870.
Other use: *Orthotrichum strangulatum* fo. *lescurii* (Austin) Vitt, 1973.

O. limprichtii I. Hagen, 1897.

O. limprichtii var. *norvegicum* (I. Hagen) Nyholm, Ill. Moss Fl. Fennoscandia. II. Musci 775. 1969.
Basionym: *Orthotrichum nudum* var. *norvegicum* I. Hagen, 1908.
Note: invalid, basionym not cited (Article 33.2), in Ill. Moss Fl. Fennoscandia. II. Musci 330. 1960.

O. ludificans Lewinsky, Mem. New York Bot. Gard. 45: 347. f. 122-132. 1987.
Type: Argentina. Parc. Nac. Nahuel Huapi, Cerro Lopez, *Laegaard 12751A*. Holotype: AAU; isotype: C. Other indicated distribution: Chile.
Original placement: sect. *Leiocarpa*.

O. macounii Austin, Bull. Torrey Bot. Club 6: 343. 1879, "*macouni*."
Other use: *Orthotrichum laevigatum* fo. *macounii* (Austin) E. Lawton & Vitt in E. Lawton, 1971.

O. macounii fo. *vermiculare* Flowers, Bryologist 76: 291. 1973.
Type: U.S.A. Utah: Daggett Co., Uintah Mts., Carter Creek, 8000 feet, *Flowers 2291*. Holotype: UT.

Orthotrichum, continued.

**O. macrosporum* Lewinsky, Lindbergia 10: 91. f. 150-161. 1984 [1985].
*illegitimate, later homonym (Article 64.1).
Earlier name: *Orthotrichum macrosporum* C. Müller, 1898.
Correct name: *Orthotrichum gigantosporum* Lewinsky, 1988 [1989].
Type: Argentina. Rio Negro: Bariloche, Pampa del Toro, road to Lago Steffen, *Rahn 4593 p.p.* Holotype: C.

O. mirum Lewinsky, Bot. Tidsskr. 72: 73. f. 6. 1978.
Type: South Africa. Natal: Scheeper's Neek, Arcadia, *Sim 10104*. Holotype: PRE.
Other use: *Stoneobryum mirum* (Lewinsky) Norris & H. Robinson, 1981.
Original placement: subgen. *O.* sect. *Diaphanum*.

O. nipponense Noguchi, J. Hattori Bot. Lab. 31: 123. f. 9. 1968.
Type: Japan [Honshu]. Aomori, *Faurie 2716*. Holotype: KYO.

O. nudum Dickson, 1801.

O. nudum var. *norvegicum* I. Hagen, Kongel. Norske Vidensk. Selsk. Skr. (Trondheim) 1907(13): 54. 1908.
Other use: *Orthotrichum limprichtii* var. *norvegicum* (I. Hagen) Nyholm, 1969.

O. pallens Bruch ex Bridel, 1827.

O. pallens var. *crenulatum* Vitt, Bryologist 74: 161. f. 9-12. 1971.
Type: U.S.A. Utah: Weber Co., Morgan, *Flowers 1881C*. Holotype: UT.

O. pallens var. *johnsenae* Vitt, Bryologist 74: 162. f. 13-16. 1971.
Type: U.S.A. Arizona: Coconimo Co., 1 mile W of Snow Bowl Lodge, *Vitt 1740*. Holotype: ALTA.

O. parvitheca R. Brown ter, Trans. & Proc. New Zealand Inst. 27: 440. pl. 41: f. 35. 1894 [1895].
Other use: *Orthotrichum tasmanicum* var. *parvitheca* (R. Brown ter) Lewinsky, 1984.

O. perexiguum Dusén ex Lewinsky, Lindbergia 10: 89. f. 142-149. 1984 [1985].
Type: Chile. San Cristobal, *Dusén 333*. Holotype: S.

O. podocarpi C. Müller, Linnaea 42: 361. 1879.
Other use: *Orthotrichum diaphanum* var. *podocarpi* (C. Müller) Lewinsky, 1984 [1985].

O. pulchellum Brunton in Smith, 1807.

O. pulchellum var. *groutii* E. Lawton, Moss Fl. Pacific Northwest 225. 1971.
Type: U.S.A. Washington, *Holzinger* (Musci Acrocarpi Bor.-Amer. 514). Holotype: WTU.

O. pumilum Swartz, 1801.

**O. pumilum* var. *ligulaefolium* Flowers, Mosses: Utah & West 296. 1973.
*invalid, no Latin description (Article 36.1).

O. pycnophyllum W. P. Schimper in C. Müller, 1849.

O. pycnophyllum var. *verrucosum* (C. Müller) Lewinsky, Mem. New York Bot. Gard. 45: 352. 1987.
Basionym: *Orthotrichum verrucosum* C. Müller, 1879.

Orthotrichum, continued.
O. rupestre Schleicher ex Schwägrichen, 1816.
O. rupestre var. *papillosum* Lewinsky, J. Hattori Bot. Lab. 56: 402. 1984.
Replaced name: *Orthotrichum fimbriatum* R. Brown ter, 1894 [1895].
O. sharpii H. Robinson, Bryologist 67: 449. f. 16-22. 1964.
Type: Mexico. Oaxaca: Sierra Juarez, 20 km beyond Ixtlan de Juarez toward Tuxtepec, Llano de las Flores, above 9000 feet, *Sharp M59167*. Holotype: US; isotype: TENN.
O. steerei Lewinsky, Mem. New York Bot. Gard. 45: 357. f. 188-197. 1987.
Replaced name: *Orthotrichum undulatum* Mitten, 1869.
Blocking name: *Orthotrichum undulatum* W. J. Hooker & Greville, 1824.
O. strangulatum Palisot de Beauvois, 1805.
O. strangulatum fo. *lescurii* (Austin) Vitt, Bryoph. Biblioth. 1: 137. 1973.
Basionym: *Orthotrichum lescurii* Austin, 1870.
O. tasmanicum J. D. Hooker & Wilson, 1848.
O. tasmanicum var. *parvitheca* (R. Brown ter) Lewinsky, J. Hattori Bot. Lab. 56: 411. 1984.
Basionym: *Orthotrichum parvitheca* R. Brown ter, 1894 [1895].
O. tenue W. J. Hooker & Greville, Edinburgh J. Sci. 1: 120. pl. 5. 1824.
Other use: *Macrocoma tenuis* (W. J. Hooker & Greville) Vitt, 1973.
O. truncatum Lewinsky & Deguchi, Bryologist 89: 216. f. 1-17. 1986 [1987].
Type: Chile. Bio-Bio: E end of Antuco, between Laguna de la Laja and Chacay, 900-1200 m, *Deguchi 31702d*. Holotype: TNS. Paratypes cited.
**O. undulatum* Mitten, J. Linn. Soc., Bot. 12: 187. 1869.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Orthotrichum undulatum* W. J. Hooker & Greville, 1824.
Correct name: *Orthotrichum steerei* Lewinsky, 1987.
O. verrucosum C. Müller, Linnaea 42: 359. 1879.
Other use: *Orthotrichum pycnophyllum* var. *verrucosum* (C. Müller) Lewinsky, 1987.

Oxyrrhynchium (W. P. Schimper in B.S.G.) Warnstorf, 1905.
O. arachnoideum Sakurai, Bot. Mag. (Tokyo) 51: 796. 1937.
Other use: *Eurhynchium savatieri* var. *arachnoideum* (Sakurai) Takaki, Noguchi & Iwatsuki in Iwatsuki & Noguchi, 1973.
O. muelleri (Jaeger) Brotherus, 1909.
O. muelleri var. *minus* Dixon, J. Bombay Nat. Hist. Soc. 39: 788. 1937.
Other use: *Rhynchostegium muelleri* var. *minus* (Dixon) Vohra, 1983.
O. peyronelii Tosco & Piovano, Allionia 4: 153. f. 27-28. 1956.
Note: not in Index Muscorum.
O. praelongum (Hedwig) Warnstof, 1906 [1905].
O. praelongum fo. *teneriffae* (Renauld & Cardot) Düll, Cryptog. Bryol. Lichénol. 1: 174. 1980.
Basionym: *Eurhynchium stokesii* var. *teneriffae* Renauld & Cardot, 1905.
O. praelongum var. *teneriffae* H. Winter, Hedwigia 55: 125. 1914.
Other use: *Kindbergia praelonga* var. *teneriffae* (H. Winter) Ochyra, 1982.

Oxyrrhynchium, continued.
O. satsumense Sakurai, Bot. Mag. (Tokyo) 46: 745. 1932.
Other use: *Eurhynchium savatieri* var. *satsumense* (Sakurai) Takaki, Noguchi & Iwatsuki in Iwatsuki & Noguchi, 1973.
O. speciosum (Bridel) Warnstorf, 1905.
**O. speciosum* fo. *pendens* Grom, Nova Hedwigia 5: 479. 1963.
*invalid, single element not cited as holotype (Article 37.3).
Type: Yugoslavia. Hoehle Dimnice, collector not indicated by author. Herbarium not specified by author.

Oxystegus (Limpricht) Hilpert, 1933.
O. burmensis (E. B. Bartram) Gangulee, Mosses E. India 3: 653. 1972, "*burmense*."
Basionym: *Trichostomum burmense* E. B. Bartram, 1954.
O. crassicostatus Norris & T. Koponen, Acta Bot. Fenn. 137: 90. f. 2: g-k, 8. 1989.
Type: Papua New Guinea. Morobe: trail from Selimbeng to Bulum River, 1200-1450 m, *Norris 59229*. Holotype: H. Paratypes cited.
O. cylindrothecus (Mitten) Gangulee, Nova Hedwigia 12: 430. 1966 [1967].
Basionym: *Tortula cylindrotheca* Mitten, 1859.
O. khasianus (Mitten) Gangulee, Nova Hedwigia 8: 149. 1964.
Basionym: *Tortula khasiana* Mitten, 1859.
O. recurvifolius (Taylor) Zander, Lindbergia 8: 187. 1982 [1983].
Basionym: *Bryum recurvifolium* Taylor, 1843.
O. spiralis (Grout) H. Crum & L. E. Anderson, Bryologist 92: 533. 1989.
Basionym: *Trichostomum spirale* Grout, 1938.
O. stenophyllus (Mitten) Gangulee, Nova Hedwigia 12: 429. 1966 [1967].
Basionym: *Tortula stenophylla* Mitten, 1859.
O. svihlae (E. B. Bartram) Gangulee, Mosses E. India 3: 654. 1972, "*svilhae*."
Basionym: *Trichostomum svihlae* E. B. Bartram, 1954.
O. tenuirostris (W. J. Hooker & Taylor) A. J. E. Smith, J. Bryol. 9: 393. 1977.
Basionym: *Weissia tenuirostris* W. J. Hooker & Taylor, 1827.
O. tenuirostris var. *gemmiparus* (W. P. Schimper) Zander, Lindbergia 4: 285. 1978.
Basionym: *Didymodon cylindricus* var. *gemmiparus* W. P. Schimper, 1876.
O. tenuirostris var. *holtii* (Braithwaite) A. J. E. Smith, J. Bryol. 9: 393. 1977.
Basionym: *Mollia tenuirostris* var. *holtii* Braithwaite, 1887.
O. tenuirostris var. *stenocarpa* (Thériot) Zander, Misc. Bryol. Lichenol. 9: 73. 1982, "*stenocarpus*."
Basionym: *Weisiopsis stenocarpa* Thériot, 1931.

Pachyneuropsis H. A. Miller, Taxon 19: 821. 1970.
Replaced name: *Pachyneurum* E. B. Bartram, 1939.
Blocking name: *Pachyneurum* Amann, 1912.
P. bartletii (E. B. Bartram) H. A. Miller, Taxon 19: 822. 1970.
Basionym: *Pachyneurum bartlettii* E. B. Bartram, 1939.

*__Pachyneurum__ E. B. Bartram, Philipp. J. Sci. 68: 100. 1939.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Pachyneurum* Amann, 1912.
Correct name: *Pachyneuropsis* H. A. Miller, 1970.
P. bartlettii E. B. Bartram, Philipp. J. Sci. 68: 101. f. 119. 1939.
Other use: *Pachyneuropsis bartletii* (E. B. Bartram) H. A. Miller, 1970.

+__Palaeohypnum__ Steere, 1946.
+*P. arnoldianum* Steere, Amer. Midl. Naturalist 36: 315. pl. 1-2. 1946.
Other use: *Archaeomnium arnoldianum* (Steere) LaMotte, 1952, *Hypnites arnoldianus* (Steere) N. G. Miller in R. J. Taylor & Leviton, 1980.
+*P. beckeri* Steere, Bull. Torrey Bot. Club 99: 28. f. 1-7. 1972.
Type: U.S.A. Montana: Upper Ruby River Basin, Renova Formation, uppermost Oligocene, *Becker, N.Y.B.G. 2221a*. Holotype: NY.
Other use: *Hypnites beckeri* (Steere) N. G. Miller in R. J. Taylor & Leviton, 1980.
+*P. brittoniae* Steere, Amer. Midl. Naturalist 36: 315. 1946.
Other use: *Archaeomnium brittoniae* (Steere) LaMotte, 1952, *Hypnites brittoniae* (Steere) N. G. Miller in R. J. Taylor & Leviton, 1980.
+*P. jovet-astiae* Kuc, Canad. J. Earth Sci. 11: 414. f. 5-6. 1974, "*jovet-asti*."
Type: Canada. British Columbia: 9 km N of Princeton, Allenby Formation (Mid-Eocene), *Hills GSC-34746*. Holotype: Natl. Type Fossil Coll., Geol. Surv. Canada.
Other use: *Hypnites jovet-astiae* (Kuc) N. G. Miller in R. J. Taylor & Leviton, 1980.
+*P. steerei* Kuc, Canad. J. Earth Sci. 11: 414. f. 7. 1974.
Type: Canada. British Columbia: 9 km N of Princeton, Allenby Formation, *Hills GSC-34747*. Holotype: Natl. Type Fossil Coll., Geol. Surv. Canada.
Other use: *Hypnites steerei* (Kuc) N. G. Miller in R. J. Taylor & Leviton, 1980.

__Palamocladium__ C. Müller, Flora 82: 465. 1896.
Replaced name: *Pleuropus* Griffith, 1842.
Blocking name: *Pleuropus* Persoon ex S. Gray, 1821.
P. macrostegium (Sullivant & Lesquereux) Iwatsuki & Takaki in Iwatsuki, J. Hattori Bot. Lab. 29: 58. 1966.
Basionym: *Hypnum macrostegium* Sullivant & Lesquereux, 1859.
P. macrostegium var. *excavatum* (Dixon & Sakurai in Sakurai) Takaki & Iwatsuki in Iwatsuki, J. Hattori Bot. Lab. 29: 60. 1966.
Basionym: *Homalothecium excavatum* Dixon & Sakurai in Sakurai, 1936.
P. macrostegium fo. *filirameum* (Takaki) Takaki & Iwatsuki in Iwatsuki, J. Hattori Bot. Lab. 29: 60. 1966.
Basionym: *Pleuropus sciureus* fo. *filirameus* Takaki, 1955.
P. macrostegium fo. *pilifolium* (Toyama) Takaki & Iwatsuki in Iwatsuki, J. Hattori Bot. Lab. 29: 60. 1966.
Basionym: *Pleuropus sciureus* fo. *pilifolius* Toyama, 1938.

Palamocladium, continued.
P. nilgheriense (Montagne) C. Müller, 1896.
P. nilgheriense fo. *luzonense* (Brotherus) Noguchi & Iwatsuki in Iwatsuki & Noguchi, J. Jap. Bot. 48: 216. 1973.
Basionym: *Pleuropus luzonensis* Brotherus, 1909.
P. sericeum (Jaeger) C. Müller, 1896.
P. sericeum var. *afrostriatum* C. Müller, Hedwigia 38: 135. 1899.
Other use: *Homalothecium afrostriatum* (C. Müller) Ochyra in Ochyra & Pócs, 1982.

Palisadula Toyama, 1937.
P. katoi (Brotherus) Iwatsuki, J. Hattori Bot. Lab. 46: 279. 1979.
Basionym: *Clastobryum katoi* Brotherus, 1921.

Palustriella Ochyra, J. Hattori Bot. Lab. 67: 223. 1989.
Type: *Hypnum commutatum* Hedwig, *P. commutata* (Hedwig) Ochyra, holotype.
Original placement: Cratoneuraceae.
P. commutata (Hedwig) Ochyra, J. Hattori Bot. Lab. 67: 224. 1989.
Basionym: *Hypnum commutatum* Hedwig, 1801.
P. commutata var. *commutatovirescens* (Amann) Ochyra, J. Hattori Bot. Lab. 67: 226. 1989.
Basionym: *Cratoneuron commutatovirescens* Amann, 1918.
P. commutata var. *diastrophylla* (Bridel) Ochyra, J. Hattori Bot. Lab. 67: 226. 1989.
Basionym: *Hypnum commutatum* var. *diastrophyllum* Bridel, 1827.
P. commutata var. *falcata* (Bridel) Ochyra, J. Hattori Bot. Lab. 67: 226. 1989.
Basionym: *Hypnum falcatum* Bridel, 1801.
P. commutata var. *fluctuans* (W. P. Schimper in B.S.G.) Ochyra, J. Hattori Bot. Lab. 67: 226. 1989.
Basionym: *Hypnum commutatum* var. *fluctuans* W. P. Schimper in B.S.G., 1854.
P. commutata var. *irrorata* (Mikutowicz) Ochyra, J. Hattori Bot. Lab. 67: 226. 1989.
Basionym: *Cratoneuron commutatum* var. *irroratum* Mikutowicz, 1913.
P. commutata var. *minor* (Lesquereux) Ochyra, J. Hattori Bot. Lab. 67: 226. 1989.
Basionym: *Hypnum commutatum* var. *minus* Lesquereux, 1846.
P. commutata var. *pseudodecipiens* (Amann) Ochyra, J. Hattori Bot. Lab. 67: 226. 1989.
Basionym: *Cratoneuron commutatum* var. *pseudodecipiens* Amann, 1918.
P. commutata var. *ptychodioides* (G. Roth) Ochyra, J. Hattori Bot. Lab. 67: 226. 1989.
Basionym: *Cratoneuron ptychodioides* G. Roth, 1910.
P. commutata var. *sulcata* (Lindberg) Ochyra, J. Hattori Bot. Lab. 67: 226. 1989.
Basionym: *Hypnum commutatum* var. *sulcatum* Lindberg, 1866 [1867].

Palustriella, continued.

P. commutata var. *sulcatoirrigata* (Meylan) Ochyra, J. Hattori Bot. Lab. 67: 226. 1989.
Basionym: *Cratoneuron sulcatoirrigatum* Meylan, 1931.

P. commutata var. *virescens* (W. P. Schimper) Ochyra, J. Hattori Bot. Lab. 67: 226. 1989.
Basionym: *Hypnum falcatum* var. *virescens* W. P. Schimper, 1876.

P. decipiens (De Notaris) Ochyra, J. Hattori Bot. Lab. 67: 226. 1989.
Basionym: *Thuidium decipiens* De Notaris, 1869.

P. decipiens var. *napaeiformis* (Schiffner) Ochyra, J. Hattori Bot. Lab. 67: 227. 1989.
Basionym: *Hypnum decipiens* var. *napaeiforme* Schiffner, 1908.

Papillaria (C. Müller) C. Müller in Ångström, 1876, conserved name.

P. africana (C. Müller) Jaeger, 1877.

P. africana var. *flagellacea* Bizot in Bizot & Pócs, Acta Bot. Acad. Sci. Hung. 28: 34. 1982.
Type: Tanzania. Mandege Forest Station, 1500 m, *Pócs, Harris & Mwanjabe 6586/B*. Holotype: EGR; isotype: PC.

P. bazzaccoi Tosco & Piovano, Allionia 4: 128. f. 11: a-b, d-g, 12. 1956.
Note: not in Index Muscorum.

P. capillacea Noguchi, Candollea 19: 182. pl. 2: f. 9-11. 1964.
Type: Nepal. Between Monjo and Benker, 2700 m, *Zimmermann 1846*. Herbarium not specified by author.

P. chrysonema C. Müller in Renauld & Cardot, Bull. Soc. Roy. Bot. Belgique 34(2): 69. 1895 [1896].
Other use: *Barbella chrysonema* (C. Müller in Renauld & Cardot) Noguchi, 1976.

P. cordatifolia Lou Jian-shing, Acta Phytotax. Sin. 21: 224. f. 2: 1-7. 1983.
Type: China. Xizang: Medog, 1000 m, *Lang 567*. Holotype: PE.

P. formosana Noguchi, 1934.

P. formosana var. *pilifera* Noguchi, Kumamoto J. Sci., Sect. 2, Biol. 2(4): 3. f. 1. 1958.
Other use: *Floribundaria sparsa* var. *pilifera* (Noguchi) Noguchi, 1965.

P. haitensis H. Crum & Steere, Amer. Midl. Naturalist 60: 28. f. 55-61. 1958.
Note: not in Index Muscorum.

P. helminthocladula Cardot, Beih. Bot. Centralbl. 17: 24. f. 16. 1904.
Other use: *Meteorium buchananii* subsp. *helminthocladulum* (Cardot) Noguchi, 1976.

P. semitorta (C. Müller) Jaeger, 1877.

P. semitorta var. *grossepapillosa* Pócs, Bot. Zhurn. (Moscow & Leningrad) 56: 846. f. 1: B. 1971.
Type: Vietnam. Ha-Giang, *Pócs 6 63/3/d*. Holotype: EC [sic, = EGR].

Papillaria, continued.
P. torquata (Wang Chung K'uei & Lin Shan-Hsiung) Lin Shan-Hsiung, Yushania 5: 28. 1988.
Basionym: *Floribundaria torquata* Wang Chung K'uei & Lin Shan-Hsiung, 1975.

Paraleptodontium D. G. Long, J. Bryol. 12: 181. 1982.
Type: *Bryum recurvifolium* Taylor, *P. recurvifolium* (Taylor) Long, holotype.
Original placement: Pottiaceae.
P. recurvifolium (Taylor) D. G. Long, J. Bryol. 12: 181. 1982.
Basionym: *Bryum recurvifolium* Taylor, 1843.

Paraleucobryum (Lindberg ex Limpricht) Loeske, 1907.
P. densifolium Thériot, 1939.
P. densifolium var. *congestum* Thériot, Rev. Bryol. Lichénol. 11: 66. 1939.
Other use: *Campylopus pittieri* var. *congestus* (Thériot) Florschütz-de Waard & Florschütz, 1979.
P. densifolium var. *latilimbatum* Thériot, Rev. Bryol. Lichénol. 11: 66. f. 18. 1939.
Other use: *Campylopus pittieri* var. *latilimbatus* (Thériot) Florschütz-de Waard & Florschütz, 1979.
P. himalayanum Dixon, Anniv. Vol. Bot. Gard. Calcutta 177. 1942.
Note: not in Index Muscorum.

Parisia Brotherus, 1906.
P. ciliata (Bescherelle) Tixier, Bryologist 88: 361. 1985 [1986].
Basionym: *Eucamptodon ciliatus* Bescherelle, 1873.
P. laevipila (Cardot & Thériot in Thériot) Tixier, Bryologist 88: 361. 1985 [1986].
Basionym: *Eucamptodon laevipilus* Cardot & Thériot in Thériot, 1910.

Penzigiella Fleischer, 1906.
P. hookeri Gangulee, Mosses E. India 5: 1252. f. 605. 1976.
Type: India. Darjeeling-Sikkim, 7000 feet, *Hooker 726*. Holotype: BM.
P. robusta Brotherus, Akad. Wiss. Wien Sitzungsber., Math.-Naturwiss. Kl., Abt. 1, 131: 216. 1923.
Other use: *Neodolichomitra robusta* (Brotherus) Noguchi, 1966.

Perssonia Bizot, Svensk Bot. Tidskr. 63: 448. 1969.
Type: *P. sanguinea* Bizot, holotype.
Original placement: Bryaceae.
P. sanguinea Bizot, Svensk Bot. Tidskr. 63: 448. f. 1-2, 4-5. 1969.
Type: Cape Verde Islands. Santo Antao: Cova, 1200 m, *Byström*, 1958. Herbarium not specified by author.

Phascopsis Stone, J. Bryol. 11: 17. 1980.
Type: *P. rubicunda* Stone, holotype.
Original placement: Pottiaceae.
P. rubicunda Stone, J. Bryol. 11: 17. f. 1-4: a-l. pl. 1. 1980.
Type: Australia. Victoria: Pink Lake, Dimboola, *Stone 2990*. Holotype: MEL; isotypes: BM, MELU, herb. Stone. Other indicated distribution: Australia (South Australia, Western Australia).

Phascum Hedwig, 1801.
P. subgen. *Acaulonopsis* Stone, J. Bryol. 15: 746. 1989.
Type: *Acaulon robustum* Brotherus ex G. Roth, *P. robustum* (Brotherus ex G. Roth) Stone, holotype.
P. austrocrispum Beckett, Trans. & Proc. New Zealand Inst. 26: 274. pl. 25. 1893 [1894].
Other use: *Weissia austrocrispa* (Beckett) Stone, 1980.
P. beaugleholei Stone, J. Bryol. 15: 766. f. 9. 1989.
Type: Australia. Victoria: Donald, *Beauglehole 5153*. Holotype: MEL.
**P. cuynetii* Bizot & Pierrot in Bizot, Dury & Pierrot, Rev. Bryol. Lichénol. 36: 506. f. 1-18. 1969 [1970].
*invalid, single element not cited as holotype (Article 37.3).
Type: Spain. Alicante: Cabo de la Nao, *Printems & Pierrot*, 1968. Herbaria: "herbiers Bizot, Pierrot et Museum d'Histoire Naturelle de Paris."
P. laticostum Stone, J. Bryol. 15: 753. f. 3, 10: e-f. 1989.
Type: Australia. Victoria: just NE of Dimboola, *Stone 14457*. Holotype: MEL.
P. longipilum Stone, J. Bryol. 15: 755. f. 4, 11: a. 1989.
Type: Australia. New South Wales: 30 km N of Wilcannia, *Stone 11589*. Holotype: MEL.
P. ludovicianum Sullivant in A. Gray, Manual (ed. 2) 616. 1856.
Other use: *Weissia ludoviciana* (Sullivant in A. Gray) W. D. Reese & B. A. Lemmon, 1965.
P. muhlenbergianum Swartz, Adnot. Bot. 74. 1829.
Other use: *Weissia muhlenbergiana* (Swartz) W. D. Reese & B. A. Lemmon, 1965.
P. perpusillum C. Müller, Linnaea 37: 145. 1872.
Other use: *Astomum perpusillum* (C. Müller) Watts & Whitelegge, 1902, *Weissia perpusilla* (C. Müller) Stone, 1980.
P. readeranum Stone, J. Bryol. 15: 757. f. 5, 11: c-d. 1989.
Type: Australia. Victoria: County Borung, *Reader*, 1903. Holotype: MEL.
P. robustum (Brotherus ex G. Roth) Stone, J. Bryol. 15: 747. 1989.
Basionym: *Acaulon robustum* Brotherus ex G. Roth, 1913.
P. robustum var. *crassinervium* (C. Müller) Stone, J. Bryol. 15: 751. f. 2. 1989.
Basionym: *Acaulon crassinervium* C. Müller, 1902.
P. sessile Bruch, Jahresber. Pollichia 2(Verz.): 49. 1844.
Other use: *Ephemerella sessilis* (Bruch) Nyholm, 1969.

Phascum, continued.

P. tasmanicum Dixon & Rodway, 1923.

P. tasmanicum var. *unguiculatum* Stone, J. Bryol. 15: 761. f. 7, 12: a-b. 1989.
Type: Australia. New South Wales: Cootamundra, *Watts 7779*. Holotype: NSW.

P. tenerum Bruch & W. P. Schimper, Bryol. Eur. (fasc. 1. Monogr): 6. pl. 1. 1836.
Other use: *Micromitrium tenerum* (Bruch & W. P. Schimper) Crosby, 1968.

Philonotis Bridel, 1827.

P. americana Dismier, Mém. Soc. Bot. France 17: 35. 1910.
Other use: *Philonotis fontana* var. *americana* (Dismier) Flowers ex H. Crum, 1969.
Note: Published simultaneously as *P. fallax* subsp. *americana* on page 22.

P. angustissima C. Müller ex Tixier, Cryptog. Bryol. Lichénol. 7: 228. f. 2. 1986.
Type: New Caledonia. Mont Atso, *Saves s.n.* Holotype: PC. Paratypes cited.

P. australiensis Griffin & Buck, Bryologist 92: 376. 1989.
Replaced name: *Glyphocarpa pusilla* J. D. Hooker & Wilson, 1844.
Blocking name: *Philonotis pusilla* (W. J. Hooker & Wilson) Mitten, 1859.

P. bartramii Matteri, Anales Inst. Patagonia 4: 273. 1973.
Replaced name: *Philonotis luteola* E. B. Bartram, 1946.
Blocking name: *Philonotis luteola* Cardot, 1911.

P. bartramioides (Griffith) Griffin & Buck, Bryologist 92: 376. 1989.
Basionym: *Weissia bartramioides* Griffith, 1842.

P. caespitosa Juratzka, 1862.

P. caespitosa var. *ampliretis* (Dixon) H. Crum, Steere & L. E. Anderson, Bryologist 68: 434. 1965 [1966].
Basionym: *Philonotis fontana* var. *ampliretis* Dixon, 1902.

P. capilliformis Lou Jian-shing & Wu Pan-cheng, Acta Phytotax. Sin. 18: 121. f. 3: 7-11. 1980.
Type: China. Xizang: Medog, 1250 m, *Lang 531*. Holotype: PE.

P. cernua (Wilson) Griffin & Buck, Bryologist 92: 376. 1989.
Basionym: *Glyphocarpa cernua* Wilson, 1851.

P. comosa (Brotherus) Griffin & Buck, Bryologist 92: 376. 1989.
Basionym: *Bartramidula comosa* Brotherus, 1904.

P. corticata H. Crum & Griffin, Bryologist 84: 399. f. 1-4. 1981.
Type: Mexico. Veracruz: road from Perote to Cofre, 3950 m, *Sharp, Juarez, Baez & Boom 7172cc*. Holotype: TENN.

P. curta (Hampe) Griffin & Buck, Bryologist 92: 376. 1989.
Basionym: *Philonotula curta* Hampe, 1878.

P. cygnea (Montagne) Griffin & Buck, Bryologist 92: 376. 1989.
Basionym: *Bartramia cygnea* Montagne, 1845.

P. dispersa (Cardot & Potier de la Varde) Griffin & Buck, Bryologist 92: 376. 1989.
Basionym: *Bartramidula dispersa* Cardot & Potier de la Varde, 1923.

P. erecta (Mitten) Griffin & Buck, Bryologist 92: 376. 1989.
Basionym: *Bartramia erecta* Mitten, 1869.

Philonotis, continued.

P. esquelensis Matteri, Revista Mus. Argent. Ci. Nat. "Bernardino Rivadavia," Nat., Ci. Bot. 3: 211. f. 7. 1968.
Type: Argentina. Chubat: Esquel, *Kuhnemann*, 1940. Holotype: BA.

P. falcata (W. J. Hooker) Mitten, 1859.

P. falcata var. *formosica* (Cardot) Wijk & Margadant, Taxon 14: 197. 1965.
Basionym: *Philonotis setschuanica* var. *formosica* Cardot, 1900.

P. fendleri (C. Müller) Griffin & Buck, Bryologist 92: 376. 1989.
Basionym: *Bartramia fendleri* C. Müller, 1879.

P. fontana (Hedwig) Bridel, 1827.

P. fontana var. *americana* (Dismier) Flowers ex H. Crum, Bryologist 72: 244. 1969.
Basionym: *Philonotis americana* Dismier, 1910.
Note: valid, error of bibliographic citation of basionym (Article 33.2), "Mém. Soc. Bot. France 17: 22."

P. fontana var. *ampliretis* Dixon, J. Bot. 40: 73. 1902.
Replaced name: *Philonotis laxa* Limpricht, 1893.
Other use: *Philonotis caespitosa* var. *ampliretis* (Dixon) H. Crum, Steere & L. E. Anderson, 1965 [1966].

P. fontana fo. *flowersii* H. Crum, Bryologist 72: 244. 1969.
Replaced name: *Philonotis fontana* var. *laxa* Flowers in Grout, 1935.
Blocking name: *Philonotis fontana* var. *laxa* Venturi, 1882.

**P. fontana* var. *laxa* Flowers in Grout, Moss Fl. N. Amer. 2: 178. pl. 70: c. 1935.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Philonotis fontana* var. *laxa* Venturi, 1882.
Other use: *Philonotis fontana* fo. *flowersii* H. Crum, 1969.

P. fontana var. *tenuicaulis* (Cardot) Noguchi, Ill. Moss Fl. Japan 3: 572. 1989.
Basionym: *Philonotis yezoana* var. *tenuicaulis* Cardot, 1909.

P. glaziovii (Hampe) Griffin & Buck, Bryologist 92: 376. 1989.
Basionym: *Glyphocarpa glaziovii* Hampe, 1872.

P. globosa (C. Müller) Griffin & Buck, Bryologist 92: 376. 1989.
Basionym: *Bartramia globosa* C. Müller, 1899.

P. glomerata Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 60. 1859.
Other use: *Mielichhoferia glomerata* (Mitten) Ochi, 1970.

P. gracillima Ångström, Öfvers. Förh. Kongl. Svenska Vetensk.-Akad. 33(4): 17. 1876.
Other use: *Philonotis uncinata* var. *gracillima* (Ångström) Florschütz, 1964.

P. hattorii Noguchi, J. Hattori Bot. Lab. 20: 280. f. 1. 1958.
Note: not in Index Muscorum.

P. hermannii H. Robinson, Phytologia 45: 460 . 1980.
Type: Bolivia. Cochabamba: near Liriuni Aguas Thermales Hotel, 2700 m, *Hermann 25135*. Holotype: US.

P. imperfecta E. B. Bartram, Philipp. J. Sci. 61: 241. 1936.
Other use: *Bartramidula imperfecta* (E. B. Bartram) Iwatsuki & B. C. Tan, 1980.

Philonotis, continued.

P. incana (Taylor) H. Robinson in H. Robinson, Holm-Nielsen & Lojtnant, Lindbergia 4: 114. 1977.
Basionym: *Bartramia incana* Taylor, 1848.

P. le-testui (Potier de la Varde) Griffin & Buck, Bryologist 92: 376. 1989.
Basionym: *Bartramidula le-testui* Potier de la Varde, 1934.

P. lindigii (Hampe) Griffin & Buck, Bryologist 92: 376. 1989.
Basionym: *Glyphocarpa lindigii* Hampe, 1862.

**P. luteola* E. B. Bartram, Farlowia 2: 315. 1946.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Philonotis luteola* Cardot, 1911.
Correct name: *Philonotis bartramii* Matteri, 1973.

P. mexicana (W. P. Schimper in Bescherelle) Griffin & Buck, Bryologist 92: 376. 1989.
Basionym: *Bartramidula mexicana* W. P. Schimper in Bescherelle, 1872.

P. mollis (Dozy & Molkenboer) Mitten, 1859.

P. mollis var. *simplicicaulis* Zanten, Nova Guinea, Bot. 16: 10(16): 293. pl. 25: f. 1. 1964.
Type: Indonesia [New Guinea]. Irian Barat: Mt. Antares, Camp 39a, 1500 m, *Zanten 496b*. Holotype: L; isotype: GRO.

P. nana (C. Müller) Griffin & Buck, Bryologist 92: 376. 1989.
Basionym: *Bartramia nana* C. Müller, 1897.

P. papillatomarginata Lou Jian-shing & Wu Pan-cheng, Acta Phytotax. Sin. 18: 123. f. 3: 1-6. 1980.
Type: China. Xizang: Medog, 800 m, *Xizang* (Tibet) Exped. 80. Holotype: PE.

P. patula (Mitten) Griffin & Buck, Bryologist 92: 376. 1989.
Basionym: *Bartramia patula* Mitten, 1869.

**P. pellucida* Brotherus & Watts in H. P. Ramsay, Taxon 29: 467. 1980.
*invalid, no Latin description (Article 36.1).

P. seriata Mitten, 1859.

P. seriata var. *laxa* Field, Proc. Birmingham Nat. Hist. Soc. 22: 131. f. 1, in part. 1972.
Type: Flora Carpatorum, supra lacum Skok-to vallis Mlinica, *Boros*, 1962. Herbarium not specified by author.

P. setosa Brotherus & Paris, Oefers. Förh. Finska Vetensk.-Soc. 53A(11): 22. 1911.
Note: not in Index Muscorum.

P. setschuanica (C. Müller) Paris, 1900, "*se-tchuenica*."

P. setschuanica var. *formosica* Cardot, Beih. Bot. Centralbl. 19(2): 108. 1900.
Other use: *Philonotis falcata* var. *formosica* (Cardot) Wijk & Margadant, 1965.

P. sharpiana Griffin & Buck, Bryologist 92: 376. f. 34-41. 1989.
Type: Mexico. Oaxaca: between Tuxtepec and Oaxaca on route 190, *Webster et al. 233-d*. Holotype: FLAS; isotype: NY.

P. tuerckheimii (C. Müller) Griffin & Buck, Bryologist 92: 376. 1989.
Basionym: *Bartramia tuerckheimii* C. Müller, 1897.

Philonotis, continued.
P. uncinata (Schwägrichen) Bridel, 1827.
P. uncinata var. *glaucescens* (Hornschuch) Florschütz, Fl. Suriname 6(1): 205. 1964.
Basionym: *Bartramia glaucescens* Hornschuch, 1840.
P. uncinata var. *gracillima* (Ångström) Florschütz, Fl. Suriname 6(1): 205. 1964.
Basionym: *Philonotis gracillima* Ångström, 1876.
P. yezoana Bescherelle & Cardot, 1909.
P. yezoana var. *tenuicaulis* Cardot, Bull. Soc. Bot. Genève, ser. 2, 1: 124. 1909.
Other use: *Philonotis fontana* var. *tenuicaulis* (Cardot) Noguchi, 1989.
P. yunckeriana E. B. Bartram, Bernice P. Bishop Mus. Bull. 220: 15. 1959.
Note: not in Index Muscorum.

Philonotula Hampe, 1877 [1878].
P. curta Hampe, Vidensk. Meddel. Dansk Naturhist. Foren. Kjøbenhavn 9-10: 258. 1878.
Other use: *Philonotis curta* (Hampe) Griffin & Buck, 1989.

Phyllodon Bruch & W. P. Schimper in B.S.G., 1851.
P. lingulatus (Cardot) Buck, Mem. New York Bot. Gard. 45: 521. 1987.
Basionym: *Taxithelium lingulatum* Cardot, 1905.
P. scutellifolius (Bescherelle) Buck, Mem. New York Bot. Gard. 45: 521. 1987.
Basionym: *Taxithelium scutellifolium* Bescherelle, 1880.
P. truncatulus (C. Müller) Buck, Mem. New York Bot. Gard. 45: 521. 1987.
Basionym: *Hypnum truncatulum* C. Müller, 1851.
P. truncatus (Welwitsch & Duby) Buck, Mem. New York Bot. Gard. 45: 521. 1987.
Basionym: *Homalia truncata* Welwitsch & Duby, 1871.

Phyllodrepanium Crosby, Rev. Bryol. Lichénol. 37: 347. 1970 [1971].
Replaced name: *Drepanophyllum* Schwägrichen, 1823.
Blocking name: *Drepanophyllum* Wibel, 1799.
P. falcifolium (Schwägrichen) Crosby, Rev. Bryol. Lichénol. 37: 346. 1970 [1971].
Basionym: *Fissidens falcifolius* Schwägrichen, 1816.

Phyllogonium Bridel, 1827.
P. fulgens (Hedwig) Bridel, 1827.
P. fulgens var. *rufescens* Lin Shan-Hsiung, J. Taiwan Mus. 36(2): 60. pl. 1: a, m-n. 1983.
Type: Colombia. Tequendama, 2600 m, *Lindig 2087*. Holotype: BM; isotypes: BM, H, NY.

Physcomitrella Bruch & W. P. Schimper in B.S.G., 1849.
**P.* subgen. *Exsertofructus* Fife, Lindbergia 8: 103. 1982.
*invalid, holotype not indicated (Article 37.1).
Type: no element indicated by author.
P. bartlettii Fife, Lindbergia 8: 103. f. 11-21. 1982.
Type: New Zealand. North Island: junction of Whangamarino and Waikato Rivers, 30 miles S of Auckland City, 37°30' S, sea level, *Bartlett*, 1980. Holotype: MICH; isotypes: UBC, herb. Bartlett, herb. Fife.
Other use: *Bryobeckettia bartlettii* (Fife) Fife, 1985.
Original placement: subgen. *Exsertofructus*.
P. californica H. Crum & L. E. Anderson, Bryologist 58: 4. f. 1-5. 1955.
Other use: *Physcomitrella patens* subsp. *californica* (H. Crum & L. E. Anderson) B. C. Tan, 1979.
P. magdalenae Sloover, Bull. Jard. Bot. Natl. Belgique 45: 131. f. 1-22. 1975.
Type: Rwanda. Gisenyi, pres du poste minier de Gikungu, *Sloover 18753*. Holotype: BR; isotype: NAM.
Other use: *Aphanorrhegma magdalenae* (Sloover) Ochyra, 1983, *Physcomitrella patens* subsp. *magdalenae* (Sloover) B. C. Tan, 1979.
P. patens (Hedwig) Bruch & W. P. Schimper in B.S.G., 1849.
P. patens subsp. *californica* (H. Crum & L. E. Anderson) B. C. Tan, J. Hattori Bot. Lab. 46: 334. 1979.
Basionym: *Physcomitrella californica* H. Crum & L. E. Anderson, 1955.
P. patens subsp. *magdalenae* (Sloover) B. C. Tan, J. Hattori Bot. Lab. 46: 334. 1979.
Basionym: *Physcomitrella magdalenae* Sloover, 1975.
P. patens var. *marginata* Vondrácek, Bull. Soc. Amis Sci. Lett. Poznan, Sér. D, Sci. Biol. 6: 121. f. 8. 1965 [1966].
Type: Iraq. Medeina, in alluvionibus Euphratis, *Hadac*, 1960. Holotype: herb. Vondrácek.
P. patens subsp. *readeri* (C. Müller) B. C. Tan, J. Hattori Bot. Lab. 46: 334. 1979.
Basionym: *Ephemerella readeri* C. Müller, 1902.
P. readeri (C. Müller) Stone & G. A. M. Scott, J. Bryol. 7: 604. 1973 [1974].
Basionym: *Ephemerella readeri* C. Müller, 1902.

Physcomitrellopsis Brotherus & H. A. Wager in Dixon, 1922.
P. indica Dixon in K. M. Gupta, J. Indian Bot. Soc. 12: 122. pl. 1-5. 1933.
Other use: *Physcomitrium indicum* (Dixon in K. M. Gupta) Gangulee, 1969 [1970].

Physcomitrium (Bridel) Bridel, 1827 [1826].
P. subgen. *Osculum* Fife, J. Hattori Bot. Lab. 58: 191. 1985.
Type: *P. pusillum* Wilson in J. D. Hooker, holotype.
P. bukobense (Brotherus in Mildbraed) Fife, Lindbergia 8: 76. 1982.
Basionym: *Micropoma bukobensis* Brotherus in Mildbraed, 1910.

Physcomitrium, continued.
P. eurystomum Sendtner, 1841.
P. eurystomum fo. *subpatulum* (Lindberg & H. Arnell) Smirnova, Novosti Sist. Niz. Rast. 6: 256. 1969 [1970].
Basionym: *Gymnostomum eurystomum* var. *subpatulum* Lindberg & H. Arnell, 1890.
P. indicum (Dixon in K. M. Gupta) Gangulee, Bull. Bot. Soc. Bengal 23: 131. 1969 [1970].
Basionym: *Physcomitrellopsis indica* Dixon in K. M. Gupta, 1933.
P. mahui H. Robinson, Phytologia 20: 329. f. 1-2. 1970.
Type: Chile. Aconcagua: Balneario Papudo, *Mahu 4835*. Holotype: US.
Original placement: subgen. *Cryptopyxis*.
P. martianovii Brotherus, Novosti Sist. Niz. Rast. 1965: 273. f. 1. 1965.
Type: U.S.S.R. Sibiria occidentalis, regio Krasnojarskensis, Minussinsk, *Martianov s.n.* Holotype: H.
P. martianovii fo. *majus* (Brotherus) Smirnova, Novosti Sist. Niz. Rast. 6: 256. 1969 [1970].
Basionym: *Physcomitrium martianovii* var. *majus* Brotherus, 1965.
P. martianovii var. *majus* Brotherus, Novosti Sist. Niz. Rast. 1965: 274. 1965.
Type: U.S.S.R. Sibiria orientalis, regio Czitaensis, Jamarovka, *Michno s.n.* Holotype: H.
Other use: *Physcomitrium martianovii* fo. *majus* (Brotherus) Smirnova, 1969 [1970].
P. phymatodeum Catcheside, Mosses S. Australia 233. f. 131. 1980.
Type: Australia. South Australia: Flinders Ranges, Spear Creek, N of Horrock's Pass, *Catcheside 53.246*. Holotype: herb. Catcheside.
P. rhizophyllum Sakurai, Bot. Mag. (Tokyo) 52: 469. f. 2. 1938.
Other use: *Chenia rhizophylla* (Sakurai) Zander, 1989, *Tortula rhizophylla* (Sakurai) Iwatsuki & K. Saito, 1972.
P. sessile J. Shaw, Cape Monthly Mag. 17: 316. 1878.
Other use: *Physcomitrium spathulatum* var. *sessile* (J. Shaw) Magill, 1987.
P. spathulatum C. Müller, 1845.
P. spathulatum var. *sessile* (J. Shaw) Magill, Fl. S. Africa, Bryophyta, Mosses 2: 319. 1987.
Basionym: *Physcomitrium sessile* J. Shaw, 1878.
P. succuleatum H. A. Wager & Wright, Trans. Roy. Soc. South Africa 4: 3. pl. 1: D. 1915.
Other use: *Funaria succuleata* (H. A. Wager & Wright) Brotherus ex Magill, 1987.
P. turgidum Mitten, J. Linn. Soc., Bot. 12: 241. 1869.
Other use: *Neosharpiella turgida* (Mitten) H. Robinson & Delgadillo M., 1973.

Pictus C. C. Townsend, J. Bryol. 12: 1. 1983.
Type: *P. scoticus* Townsend, holotype.
Original placement: Amblystegiaceae.

Pictus, continued.
P. scoticus C. C. Townsend, J. Bryol. 12: 4. f. 1-2. pl. 1. 1982.
Type: United Kingdom. Scotland: Gleann Beag, Glen Shee, E Perth, vice-county 89, ca. 500 m, *Townsend 79/321*. Holotype: BM; isotype: herb. Townsend.

Piloecium (C. Müller) Brotherus in Engler & Prantl, 1908.
P. acroporioides Dixon, J. Linn. Soc., Bot. 50: 132. pl. 3: f. 37. 1935, "*acroporoides*" on page 132, "*acroporioides*" on legend of plate.
Other use: *Myurium pseudorufescens* subsp. *acroporioides* (Dixon) Maschke, 1976.

Pilopogon Bridel, 1826.
P. subgen. *Parapilopogon* Frahm, Lindbergia 9: 114. 1983.
Type: *P. longirostratis* Mitten, holotype.
P. lorentzii Fleischer, Hedwigia 50: 280. 1911.
Other use: *Campylopus exasperatus* var. *lorentzii* (Fleischer) Frahm, 1985, *Campylopus lorentzii* (Fleischer) Schultze-Motel, 1963.
P. peruvianus (R. S. Williams) Frahm, Lindbergia 9: 104. 1983.
Basionym: *Campylopus peruvianus* R. S. Williams, 1915.
P. serrifolius Brotherus & Paris, Oefers. Förh. Finska Vetensk.-Soc. 53A(11): 7. 1911.
Other use: *Campylopus serrifolius* (Brotherus & Paris) Frahm, 1983.

Piloseriopus A. J. Sharp, Hikobia 9: 305. 1986.
Type: *Eriopus setigerus* Mitten, *P. setigerus* (Mitten) Sharp, holotype.
Original placement: Hookeriaceae?
P. haitensis (H. Crum & Steere) A. J. Sharp, Mem. New York Bot. Gard. 45: 292. 1987.
Basionym: *Eriopus haitensis* H. Crum & Steere, 1958.
P. setigerus (Mitten) A. J. Sharp, Hikobia 9: 305. 1986.
Basionym: *Eriopus setigerus* Mitten, 1869.

Pilotrichella (C. Müller) Bescherelle, 1872.
P. biformis (Hampe) C. Müller ex Geheeb, 1881.
P. biformis var. *congesta* Renauld & Cardot, Bull. Soc. Roy. Bot. Belgique 41(1): 76. 1902-03 [1905].
Other use: *Squamidium biforme* var. *congestum* (Renauld & Cardot) Een, 1976.
P. densiramea Brotherus, Bot. Jahrb. Syst. 20: 197. 1894.
Other use: *Squamidium biforme* var. *densirameum* (Brotherus) Bizot in Bizot & Pócs, 1982.

Pilotrichidium Bescherelle, 1876.
P. antillarum Bescherelle, 1876.
P. antillarum var. *cubense* Thériot ex Bizot, Bull. Mens. Soc. Linn. Soc. Bot. Lyon 34: 318. 1965.
Type: Cuba. Pic Turquino, *Acuña 354*. Holotype: herb. Thériot.
Note: invalid, no Latin description (Article 36.1), in Thériot, Mem. Soc. Bot. Cub. Hist. Nat. "Felipe Poey" 14(4): 363. 1940.
P. diatomophilum (C. Müller) Crosby, Ann. Missouri Bot. Gard. 57: 257. 1970 [1971].
Basionym: *Hookeria diatomophila* C. Müller, 1898.

***Pilotrichum** Bridel, 1819 [1818].
*illegitimate, later homonym (Article 64.1).
Earlier name: *Pilotrichum* Palisot de Beauvois, 1804.
Correct name: *Callicosta* C. Müller, 1848.
P. ambiguum Hornschuch in C. Martius, Fl. Bras. 1(2): 59. 1840.
Other use: *Zelometeorium ambiguum* (Hornschuch in C. Martius) Manuel, 1977.
P. andersonii Crosby, Bryologist 72: 296. f. 36-42, 176. 1968.
Type: Trinidad. Trail up El Tucuche, Northern Range, *Crosby 2303*. Holotype: DUKE; isotypes: MO, NY, U.
Other use: *Callicosta andersonii* (Crosby) Crosby, 1978.
P. armatum Brotherus, Rev. Bryol. 47: 36. 1920.
Other use: *Callicosta armata* (Brotherus) Crosby, 1978.
P. asperifolium Mitten, J. Linn. Soc., Bot. 12: 387. 1869.
Other use: *Callicosta asperifolia* (Mitten) Crosby, 1978.
P. corrugatum Renauld & Cardot, Bull. Soc. Roy. Bot. Belgique 41(1): 79. 1902-03 [1905].
Other use: *Callicosta corrugata* (Renauld & Cardot) Crosby, 1978.
P. cristatum Mitten, J. Linn. Soc., Bot. 12: 387. 1869.
Other use: *Callicosta cristata* (Mitten) Crosby, 1978.
P. debile Bescherelle, Ann. Sci. Nat. Bot., ser. 6, 3: 222. 1876.
Other use: *Callicosta debilis* (Bescherelle) Crosby, 1978.
P. divaricatum Mitten, J. Linn. Soc., Bot. 12: 389. 1869.
Other use: *Callicosta divaricata* (Mitten) Crosby, 1978.
P. evanescens (C. Müller) Crosby, Bryologist 72: 326. 1969.
Basionym: *Callicosta evanescens* C. Müller, 1848.
P. fendleri C. Müller, Linnaea 42: 492. 1879.
Other use: *Callicosta fendleri* (C. Müller) Crosby, 1978.
P. genuflexum C. Müller, Linnaea 18: 676. 1844 [1845].
Other use: *Ancistrodes genuflexa* (C. Müller) Crosby, 1976, *Bryodusenia genuflexa* (C. Müller) H. Robinson, 1974.
P. husnotii W. P. Schimper ex Bescherelle, Ann. Sci. Nat. Bot., ser. 6, 3: 221. 1876, "*husnoti*."
Other use: *Callicosta husnotii* (W. P. Schimper ex Bescherelle) Crosby, 1978.

Pilotrichum, continued.

P. longicaule Brotherus, Rev. Bryol. 47: 36. 1920.
Other use: *Callicosta longicaulis* (Brotherus) Crosby, 1978.

P. lophophyllum Sullivant, Proc. Amer. Acad. Arts 5: 284. 1861.
Other use: *Callicosta lophophylla* (Sullivant) Crosby, 1978.

P. luciae Crosby, Bryologist 72: 305. f. 169-175. 1969.
Type: Martinique. Above Alma, *Crosby & Crosby 4500*. Holotype: MO; isotypes: DUKE, PC, U.
Other use: *Callicosta luciae* (Crosby) Crosby, 1978.

P. mexicanum Thériot, Smithsonian Misc. Collect. 81(1): 19. f. 6. 1928.
Other use: *Curviramea mexicana* (Thériot) H. Crum, 1984.

P. papillosum Britton ex H. Crum & E. B. Bartram, Bull. Inst. Jamaica, Sci. Ser. 8: 46. f. 17-20. 1958.
Note: not in Index Muscorum.

P. procerum Mitten, J. Linn. Soc., Bot. 12: 390. 1869.
Other use: *Callicosta procera* (Mitten) Crosby, 1978.

P. ramosissimum Mitten, J. Linn. Soc., Bot. 12: 388. 1869.
Other use: *Callicosta ramosissima* (Mitten) Crosby, 1978.

P. recurvifolium Hornschuch in C. Martius, Fl. Bras. 1(2): 58. 1840.
Other use: *Zelometeorium patens* var. *recurvifolium* (Hornschuch in C. Martius) Menzel in Schultze-Motel & Menzel, 1987, *Zelometeorium recurvifolium* (Hornschuch in C. Martius) Manuel, 1977.

P. rugifolium C. Müller, Syn. Musc. Frond. 2: 177. 1851.
Other use: *Callicosta rugifolia* (C. Müller) Crosby, 1978.

Pinnatella Fleischer, 1906.

P. sect. *Tenuinervia* Enroth, Acta Bot. Fenn. 137: 71. 1989.
Type: *Neckera mucronata* Bosch & Sande Lacoste, *P. mucronata* (Bosch & Sande Lacoste) Fleischer, holotype.

P. allamanoi Tosco & Piovano, Allionia 4: 137. f. 17-18. 1956.
Original placement: subsect. *Pinnatellae*.
Note: not in Index Muscorum.

P. alopecuroides (W. J. Hooker) Fleischer, 1906.

P. alopecuroides var. *calcutensis* (Fleischer) Gangulee, Mosses E. India 5: 1440. 1976, "*calcuttensis*."
Basionym: *Pinnatella calcutensis* Fleischer, 1906.

P. alopecuroides var. *donghamensis* (Bescherelle) Brotherus, Nat. Pflanzenfam. 1(3): 858. 1906.
Basionym: *Porotrichum alopecuroides* var. *donghamense* Bescherelle, 1887.
Note: invalid, basionym not cited (Artile 33.2), and redundant, Tixier, Rev. Bryol. Lichénol 34: 148. 1966.

P. calcutensis Fleischer, Hedwigia 45: 84. 1906.
Other use: *Pinnatella alopecuroides* var. *calcutensis* (Fleischer) Gangulee, 1976.

P. fuciformis (Bridel) Touw, Lindbergia 3: 190. 1976.
Basionym: *Hypnum fuciforme* Bridel, 1812.

Pinnatella, continued.
P. mucronata (Bosch & Sande Lacoste) Fleischer, 1906.
**P. mucronata* var. *acutifolia* Tixier, Rev. Bryol. Lichénol. 34: 148. f. 12. 1966.
*invalid, single element not cited as holotype (Article 37.3).
Type: Vietnam. Tam-Dao, 950 & 1100 m, *Demange*, 1925, 2 collections, neither indicated as holotype.
P. pusilla Noguchi, Trans. Nat. Hist. Soc. Taiwan 25: 66. pl. 1: 10-11. 1935.
Note: not in Index Muscorum.
P. revoluta Bizot, Svensk Bot. Tidskr. 63: 452. 1969.
Type: Cape Verde Islands. Sao Nicolau: entre Cruzelinha et Calderhina, 1000 m, *Byström*, 1958. Herbarium not specified by author.
P. siamensis (Horikawa & Ando in Kira & Umesao) Noguchi, J. Hattori Bot. Lab. 61: 262. 1986.
Basionym: *Thamnium siamense* Horikawa & Ando in Kira & Umesao, 1964.

Pireella Cardot, 1913.
P. pergemmescens H. Robinson in H. Robinson, Holm-Nielsen & Jeppesen, Lindbergia 1: 71. f. 2. 1971.
Type: Ecuador. Guayas: Hacienda Piedad, 5 km N of Balzar, *Holm-Nielsen & Jeppesen 14*. Holotype: AAU; isotype: US.

Plagiobryum Lindberg, 1863.
P. demissum (W. J. Hooker) Lindberg, 1863.
P. demissum subsp. *hultenii* Ochi & Persson, Svensk Bot. Tidskr. 57: 239. f. 1. 1963.
Type: Japan [Honshu]. Aomori (Mutsu), Mt. Hakkoda, 1400 m, *Hulten*, 1961. Holotype: S-PA.
P. laxum Demaret & Potier de la Varde in Demaret & J. Leroy, Explor. Parc Natl. Albert, Mission Lebrun 6: 24. f. 25-28. 1944.
Note: not in Index Muscorum.

Plagiomnium T. Koponen, Ann. Bot. Fenn. 5: 145. 1968.
Type: *Mnium cuspidatum* Hedwig, *P. cuspidatum* (Hedwig) T. Koponen, holotype.
Original placement: Mniaceae.
P. sect. *Pseudobryum* (Kindberg) M. C. Bowers, Lindbergia 6: 30. 1980.
Basionym: *Mnium* subgen. *Pseudobryum* Kindberg, 1897 [1898].
P. sect. *Rosulata* (Kindberg) T. Koponen, Ann. Bot. Fenn. 5: 146. 1968.
Basionym: *Mnium* sect. *Rosulata* Kindberg, 1897 [1898].
P. sect. *Undulata* (Kindberg) T. Koponen, Ann. Bot. Fenn. 5: 146. 1968.
Basionym: *Mnium* sect. *Undulata* Kindberg, 1897 [1898].
P. sect. *Venusta* (Kabiersch) T. Koponen, Ann. Bot. Fenn. 5: 146. 1968.
Basionym: *Mnium* subsect. *Venusta* Kabiersch, 1936.
P. acutum (Lindberg) T. Koponen, Ann. Bot. Fenn. 12: 57. 1975.
Basionym: *Mnium acutum* Lindberg, 1872.

Plagiomnium, continued.

P. affine (Blandow ex Funck) T. Koponen, Ann. Bot. Fenn. 5: 146. 1968.
Basionym: *Mnium affine* Blandow ex Funck, 1810.

P. affine var. *elatum* (Bruch & W. P. Schimper) Margadant & During, Bekn. Fl. Ned. Blad. Leverm. 443. 1982.
Basionym: *Mnium affine* var. *elatum* Bruch & W. P. Schimper, 1838.
Note: valid, error of bibliographic citation of basionym (Article 33.2), "*Mnium elatum*."

P. affine var. *rugicum* (Laurer) Margadant & During, Bekn. Fl. Ned. Blad. Leverm. 443. 1982.
Basionym: *Mnium rugicum* Laurer, 1827.

P. arbuscula (C. Müller) T. Koponen, Ann. Bot. Fenn. 5: 146. 1968.
Basionym: *Mnium arbuscula* C. Müller, 1898.

P. carolinianum (L. E. Anderson) T. Koponen, Ann. Bot. Fenn. 14: 6. 1977.
Basionym: *Mnium carolinianum* L. E. Anderson, 1954.

P. ciliare (C. Müller) T. Koponen, Ann. Bot. Fenn. 5: 147. 1968.
Basionym: *Mnium affine* var. *ciliare* C. Müller, 1848.

P. cinclidioides (Hübener) M. C. Bowers, Lindbergia 6: 30. 1980.
Basionym: *Mnium cinclidioides* Hübener, 1833.

P. confertidens (Lindberg & H. Arnell) T. Koponen, Ann. Bot. Fenn. 5: 146. 1968.
Basionym: *Astrophyllum confertidens* Lindberg & H. Arnell, 1890.

P. cordatum T. Koponen & Norris, Ann. Bot. Fenn. 20: 36. f. 22-31. 1983.
Type: Papua New Guinea. Morobe: Cromwell Mts., 7 km SE of Indagen airstrip, 2450-2550 m, 6°18' S, 147°16' E, *Koponen 30944*. Holotype: H; isotypes: HSC, LAE, "others to be distributed later."

P. curvatulum (Lindberg) Schljakov, Novosti Sist. Niz. Rast. 19: 210. 1982.
Basionym: *Astrophyllum curvatulum* Lindberg, 1881 [June].

P. cuspidatum (Hedwig) T. Koponen, Ann. Bot. Fenn. 5: 146. 1968.
Basionym: *Mnium cuspidatum* Hedwig, 1801.

P. drummondii (Bruch & W. P. Schimper) T. Koponen, Ann. Bot. Fenn. 5: 146. 1968.
Basionym: *Mnium drummondii* Bruch & W. P. Schimper, 1843.

P. ecklonii (C. Müller) T. Koponen, Ann. Bot. Fenn. 14: 6. 1977.
Basionym: *Mnium ecklonii* C. Müller, 1855.

P. elatum (Bruch & W. P. Schimper) T. Koponen, Ann. Bot. Fenn. 5: 146. 1968.
Basionym: *Mnium affine* var. *elatum* Bruch & W. P. Schimper, 1838.

P. elimbatum (Fleischer in Brotherus) T. Koponen, Ann. Bot. Fenn. 11: 94. 1974.
Basionym: *Mnium elimbatum* Fleischer in Brotherus, 1904 [Jan].

P. ellipticum (Bridel) T. Koponen, Ann. Bot. Fenn. 8: 367. 1971.
Basionym: *Mnium ellipticum* Bridel, 1817.

P. insigne (Mitten) T. Koponen, Ann. Bot. Fenn. 5: 146. 1968.
Basionym: *Mnium insigne* Mitten, 1856.

Plagiomnium, continued.

P. integroradiatum (Dixon) Gao Chien & Chang Kung-chu, J. Hattori Bot. Lab. 54: 200. 1983.
Basionym: *Mnium integroradiatum* Dixon, 1933.

P. integrum (Bosch & Sande Lacoste) T. Koponen, Hikobia 6: 57. 1971.
Basionym: *Mnium integrum* Bosch & Sande Lacoste, 1861.

P. japonicum (Lindberg) T. Koponen, Ann. Bot. Fenn. 5: 146. 1968.
Basionym: *Mnium japonicum* Lindberg, 1872.

P. kawadei (S. Okamura in Matsumura) Iwatsuki in H. Inoue & Iwatsuki, Bull. Natl. Sci. Mus. 13: 488. 1970.
Basionym: *Mnium kawadei* S. Okamura in Matsumura, 1920.

P. maximoviczii (Lindberg) T. Koponen, Ann. Bot. Fenn. 5: 147. 1968.
Basionym: *Mnium maximoviczii* Lindberg, 1872.

P. medium (Bruch & W. P. Schimper) T. Koponen, Ann. Bot. Fenn. 5: 146. 1968.
Basionym: *Mnium medium* Bruch & W. P. Schimper, 1838.

P. medium subsp. *curvatulum* (Lindberg) T. Koponen, Ann. Bot. Fenn. 5: 146. 1968.
Basionym: *Astrophyllum curvatulum* Lindberg, 1881 [June].

P. medium var. *curvatulum* (Lindberg) H. Crum & L. E. Anderson, Bryologist 92: 533. 1989.
Basionym: *Astrophyllum curvatulum* Lindberg, 1881 [June].

P. novae-zealandiae (Colenso) T. Koponen, Ann. Bot. Fenn. 14: 6. 1977.
Basionym: *Mnium novae-zealandiae* Colenso, 1886.

P. prorepens (C. Müller) T. Koponen, Ann. Bot. Fenn. 14: 6. 1977.
Basionym: *Mnium prorepens* C. Müller, 1896.

P. rhynchophorum (W. J. Hooker) T. Koponen, Hikobia 6: 57. 1971.
Basionym: *Mnium rhynchophorum* W. J. Hooker, 1836.

P. rhynchophorum var. *carolinianum* (L. E. Anderson) T. Koponen, Ann. Bot. Fenn. 18: 110. 1981.
Basionym: *Mnium carolinianum* L. E. Anderson, 1954.

P. rhynchophorum var. *reidii* (Dixon) T. Koponen, Ann. Bot. Fenn. 18: 109. 1981.
Basionym: *Mnium rostratum* var. *reidii* Dixon, 1920.

P. rostratum (Schrader) T. Koponen, Ann. Bot. Fenn. 5: 147. 1968.
Basionym: *Mnium rostratum* Schrader, 1802.

P. rostratum var. *americanum* (Hampe) T. Koponen, Ann. Bot. Fenn. 14: 6. 1977.
Basionym: *Mnium rostratum* var. *americanum* Hampe, 1875.

P. rostratum fo. *microovale* (C. Müller) Gao Chien & Chang Kung-chu, J. Hattori Bot. Lab. 54: 200. 1983.
Basionym: *Mnium microovale* C. Müller, 1897.

P. rostratum subsp. *rhynchophorum* (W. J. Hooker) Noguchi in Noguchi & Iwatsuki, Bull. Univ. Mus. Univ. Tokyo 8: 265. 1975.
Basionym: *Mnium rhynchophorum* W. J. Hooker, 1836.

Plagiomnium, continued.

P. rostratum subsp. *vesicatum* (Bescherelle) Noguchi in Noguchi & Iwatsuki, Bull. Univ. Mus. Univ. Tokyo 8: 265. 1975.
Basionym: *Mnium vesicatum* Bescherelle, 1893.

P. rugicum (Laurer) T. Koponen, Ann. Bot. Fenn. 5: 146. 1968.
Basionym: *Mnium rugicum* Laurer, 1827.

P. speciosum (Mitten) M. C. Bowers, Lindbergia 6: 30. 1980.
Basionym: *Mnium speciosum* Mitten, 1891.

P. subelimbatum (Dixon) T. Koponen, Ann. Bot. Fenn. 16: 95. 1979.
Basionym: *Mnium subelimbatum* Dixon, 1942.

P. succulentum (Mitten) T. Koponen, Ann. Bot. Fenn. 5: 147. 1968.
Basionym: *Mnium succulentum* Mitten, 1859.

P. tezukae (Sakurai) T. Koponen, Ann. Bot. Fenn. 5: 146. 1968.
Basionym: *Mnium tezukae* Sakurai, 1954.

P. trichomanes (Mitten) T. Koponen, Ann. Bot. Fenn. 5: 146. 1968.
Basionym: *Mnium trichomanes* Mitten, 1856.

P. trichomanes var. *decursivifolium* (C. Müller) Iwatsuki & Noguchi, J. Jap. Bot. 48: 217. 1973.
Basionym: *Mnium decursivifolium* C. Müller, 1900.
Note: valid, error of bibliographic citation of basionym (Article 33.2), "*Mnium cuspidatum* var. *decursivifolium*."

P. undulatum (Hedwig) T. Koponen, Ann. Bot. Fenn. 5: 146. 1968.
Basionym: *Mnium undulatum* Hedwig, 1801.

P. venustum (Mitten) T. Koponen, Ann. Bot. Fenn. 5: 146. 1968.
Basionym: *Mnium venustum* Mitten, 1856.

P. vesicatum (Bescherelle) T. Koponen, Ann. Bot. Fenn. 5: 147. 1968.
Basionym: *Mnium vesicatum* Bescherelle, 1893.

+**Plagiopodopsis** Britton & Hollick, 1915.

+*P. eocenica* (Kuc) N. G. Miller in R. J. Taylor & Leviton, Mosses N. Amer. 17. 1980.
Basionym: *Muscites eocenicus* Kuc, 1972.

Plagiopus Bridel, 1826.

P. oederianus (Swartz) H. Crum & L. E. Anderson, Mosses E. N. Amer. 1: 636. 1981, "*oderiana*."
Basionym: *Bartramia oederiana* Swartz, 1802.

Plagioracelopus G. L. S. Merrill, Mem. New York Bot. Gard. 45: 469. 1987.
Type: *Pogonatum marginatum* Mitten, *P. marginatus* (Mitten) Merrill, holotype.
Original placement: Polytriachaceae.

P. marginatus (Mitten) G. L. S. Merrill, Mem. New York Bot. Gard. 45: 469. 1987.
Basionym: *Pogonatum marginatum* Mitten, 1859.

Plagioracelopus, continued.

P. rutteri (Thériot & Dixon) G. L. S. Merrill, Mem. New York Bot. Gard. 45: 469. 1987.

Basionym: *Atrichum rutteri* Thériot & Dixon, 1916.

Plagiothecium Bruch & W. P. Schimper in B.S.G., 1852.

P. sect. *Saviczia* (A. L. Abramova & I. I. Abramov) Iwatsuki, J. Hattori Bot. Lab. 33: 341. 1970.

Basionym: *Saviczia* A. L. Abramova & I. I. Abramov, 1966.

P. aomoriense Bescherelle, Ann. Sci. Nat. Bot., ser. 7, 17: 385. 1893.

Other use: *Taxiphyllum aomoriense* (Bescherelle) Iwatsuki, 1963.

P. berggrenianum Frisvoll, Lindbergia 7: 96. f. 2: a-i. 1981 [1982].

Type: Norway. Svalbard, Krossfjorden, Kollerfjorden, below bird cliff in Christian Michelsenfjella W, 50 m, *Frisvoll*, 1974. Holotype: TRH.

P. cavifolium (Bridel) Iwatsuki, J. Hattori Bot. Lab. 33: 360. 1970.

Basionym: *Hypnum cavifolium* Bridel, 1827.

P. cavifolium fo. *acuminatum* (Jedlicka) Iwatsuki, J. Hattori Bot. Lab. 33: 363. 1970.

Basionym: *Plagiothecium roeseanum* fo. *acuminatum* Jedlicka, 1948.

P. cavifolium var. *fallax* (Cardot & Thériot) Iwatsuki, J. Hattori Bot. Lab. 33: 363. 1970.

Basionym: *Plagiothecium fallax* Cardot & Thériot, 1902.

P. cavifolium var. *orthocladium* (W. P. Schimper in B.S.G.) Iwatsuki, J. Hattori Bot. Lab. 33: 371. 1970.

Basionym: *Plagiothecium orthocladium* W. P. Schimper in B.S.G., 1851.

P. cavifolium fo. *otii* (Sakurai) Iwatsuki, J. Hattori Bot. Lab. 33: 363. 1970.

Basionym: *Plagiothecium otii* Sakurai, 1949.

P. cordifolium Lazarenko, Bot. Zhurn. (Kiev) 2: 192. 1945.

Note: not in Index Muscorum.

P. dehradunense Vohra, Bull. Bot. Surv. India 16: 139. f. 1-17. 1974 [1977].

Type: India. Dehra Dun, Rajpur, 900 m, *Malhotra 558*. Holotype: CAL; isotype: BSD.

P. denticulatum (Hedwig) W. P. Schimper in B.S.G., 1851.

P. denticulatum var. *bullulae* Grout, N. Amer. Musci Perf. 450. 1942.

Note: not in Index Muscorum.

P. elegans (Bridel) W. P. Schimper, 1876.

P. elegans var. *gracilens* Austin ex Grout, Moss. Hand-lens Microsc. 367. 1910.

Other use: *Isopterygium borrerianum* var. *gracilens* (Austin ex Grout) H. Crum, Steere & L. E. Anderson, 1965 [1966].

Note: invalid, no description (Article 41.3), in Austin, Musci Appalach. 350. 1870.

**P. elegans* var. *gracilescens* Wijk, Margadant & Florschütz, Regnum Veg. 48: 93 (Ind. Musc. 4: 93). 1967.

*invalid, orthographic variant (Article 75.1).

Correct name: *Plagiothecium elegans* var. *gracilens* Austin ex Grout, 1910.

Plagiothecium, continued.

P. euryphyllum (Cardot & Thériot) Iwatsuki, J. Hattori Bot. Lab. 33: 348. 1970.
Basionym: *Isopterygium euryphyllum* Cardot & Thériot, 1908.

P. euryphyllum var. *brevirameum* (Cardot) Iwatsuki, J. Hattori Bot. Lab. 33: 351. 1970.
Basionym: *Plagiothecium splendens* var. *brevirameum* Cardot, 1912.

P. falklandicum (Cardot & Brotherus) Newton, Brit. Antarct. Surv. Bull. 66: 86. 1985.
Basionym: *Plagiothecium roeseanum* var. *falklandicum* Cardot & Brotherus, 1923.
Note: invalid, basionym not cited (Article 33.2), in Brit. Antarct. Surv. Bull. 60: 63. 1983.

P. fallax Cardot & Thériot, Proc. Wash. Acad. Sci. 4: 336. pl. 22: f. 4. 1902.
Other use: *Plagiothecium cavifolium* var. *fallax* (Cardot & Thériot) Iwatsuki, 1970.

P. fontigenum C. Müller, Hedwigia 40: 58. 1901.
Other use: *Isopterygium fontigenum* (C. Müller) Buck & Ireland, 1989.

P. formosicum Brotherus & A. Yasuda, 1926.

P. formosicum var. *rectiapex* Li Deng-ke, Acta Phytotax. Sin. 19: 266. f. 11-14. 1981.
Type: China. Xizang: Yadong, 3400 m, *Zang 1965*. Holotype: KUN; isotype: SHM.
Note: redescribed in Bryofl. Xizang 390. f. 170: 10-13. 1985.

P. groutii Cardot & Thériot, Bot. Gaz. (Crawfordsville) 37: 379. pl. 24: 3. 1904.
Other use: *Isopterygium micans* var. *groutii* (Cardot & Thériot) H. Crum, Steere & L. E. Anderson, 1964.

P. japonicum Sakurai, Bot. Mag. (Tokyo) 62: 112. f. 1. 1949.
Other use: *Plagiothecium nemorale* fo. *japonicum* (Sakurai) Iwatsuki, 1970.

P. kolesnikovii Lazarenko, Bot. Zhurn. (Kiev) 2: 191. 1945.
Note: not in Index Muscorum.

P. kuroiwae Brotherus, Oefers. Förh. Finska Vetensk.-Soc. 62A(9): 46. 1921.
Other use: *Taxiphyllum kuroiwae* (Brotherus) Iwatsuki, 1963.

P. muellerianum W. P. Schimper, Syn. Musc. Eur. 584. 1860.
Other use: *Isopterygiopsis muelleriana* (W. P. Schimper) Iwatsuki, 1970.

P. neckeroideum W. P. Schimper in B.S.G., 1851.

P. neckeroideum var. *niitakayamae* (Toyama) Iwatsuki, J. Hattori Bot. Lab. 33: 354. 1970.
Basionym: *Plagiothecium niitakayamae* Toyama, 1937.

P. nemorale (Mitten) Jaeger, 1878.

P. nemorale fo. *japonicum* (Sakurai) Iwatsuki, J. Hattori Bot. Lab. 33: 370. 1970.
Basionym: *Plagiothecium japonicum* Sakurai, 1949.

P. niitakayamae Toyama, Acta Phytotax. Geobot. 6: 174. f. 4. 1937.
Other use: *Plagiothecium neckeroideum* var. *niitakayamae* (Toyama) Iwatsuki, 1970.

Plagiothecium, continued.

P. obtusissimum Brotherus, Oefers. Förh. Finska Vetensk.-Soc. 62A(9): 45. 1921.
Other use: *Saviczia obtusissima* (Brotherus) A. L. Abramova & I. I. Abramov, 1966.

P. orthocladium W. P. Schimper in B.S.G., Bryol. Eur. fasc. 48. Monogr. 5. pl. 10: orthocladium (5: 193. pl. 504: orthocladium). 1851.
Other use: *Plagiothecium cavifolium* var. *orthocladium* (W. P. Schimper in B.S.G.) Iwatsuki, 1970.

P. otii Sakurai, Bot. Mag. (Tokyo) 62: 113. f. 5. 1949.
Other use: *Plagiothecium cavifolium* fo. *otii* (Sakurai) Iwatsuki, 1970.

P. pilosum Brotherus & M. Yasuda, Rev. Bryol. 53: 3. 1926.
Other use: *Taxiphyllum pilosum* (Brotherus & M. Yasuda) Iwatsuki, 1963.

P. regnellii Ångström, Öfvers. Förh. Kongl. Svenska Vetensk.-Akad. 33(4): 44. 1876.
Other use: *Lepidopilidium regnellii* (Ångström) Buck & Ireland, 1989.

P. roeseanum W. P. Schimper in B.S.G., 1851.

P. roeseanum fo. *acuminatum* Jedlicka, Spisy Prír. Fak. Univ. v Brne 308: 40. 1948.
Other use: *Plagiothecium cavifolium* fo. *acuminatum* (Jedlicka) Iwatsuki, 1970.

P. roeseanum var. *falklandicum* Cardot & Brotherus, Kongl. Svenska Vetensk. Acad. Handl. 63(10): 66. 1923.
Other use: *Plagiothecium falklandicum* (Cardot & Brotherus) Newton, 1985.

P. rotundifolium Li Deng-ke, Acta Phytotax. Sin. 19: 264. f. 1-10. 1981.
Type: China. Xizang: Yadong, 3400 m, *Zang 288*. Holotype: KUN; isotype: HSM.

P. sadoense Sakurai, Bot. Mag. (Tokyo) 62: 113. f. 4. 1949.
Other use: *Taxiphyllum sadoense* (Sakurai) Iwatsuki, 1963.

P. simonovii Savicz-Ljubitskaya & Smirnova, Bjull. Sovetsk. Antark. Eksped. 49: 34. f. 1. 1964.
Type: Antarctica. Antarctida Orientalis, Terra reginae Maud, oasis Schirmacher, lacus Glubokoje, 32.3 m, *Simonov*, 1962. Holotype: LE. Paratypes cited.

P. splendens W. P. Schimper ex Cardot, 1912.

P. splendens var. *brevirameum* Cardot, Bull. Soc. Bot. Genève, ser. 2, 4: 384. 1912.
Other use: *Plagiothecium euryphyllum* var. *brevirameum* (Cardot) Iwatsuki, 1970.

P. squamatum Brotherus, Oefers. Förh. Finska Vetensk.-Soc. 62A(9): 45. 1921.
Other use: *Taxiphyllum squamatum* (Brotherus) Iwatsuki, 1963.

Platydictya Berkeley, 1863.

P. confervoides (Bridel) H. Crum, Michigan Bot. 3: 60. 1964.
Basionym: *Hypnum confervoides* Bridel, 1812.

Platydictya, continued.

P. densissima (Cardot) H. Robinson, Antarc. Res. Ser., Amer. Geophys. Union 20: 176. 1972.
Basionym: *Amblystegium densissimum* Cardot, 1900.

P. fauriei (Cardot) Iwatsuki & Noguchi, J. Jap. Bot. 48: 217. 1973.
Basionym: *Amblystegiella fauriei* Cardot, 1913.

P. hattorii Kanda, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 15: 229. f. 11: 14-22, 12. 1975 [1976].
Type: Japan [Honshu]. Nagano: NI-53-1, Ontakensan, Mt. Ontake, 1250 m, *Hattori s.n.* Holotype: NICH; isotype: HIRO.

P. jungermannioides (Bridel) H. Crum, Michigan Bot. 3: 60. 1964.
Basionym: *Hypnum jungermannioides* Bridel, 1812.
Note: the citations for this combination in Taxon 26: 301. 1977 and Taxon 28: 257. 1979 are incorrect.

P. jungermannioides var. *minutissima* (Sullivant & Lesquereux) H. Crum, Michigan Bot. 3: 60. 1964.
Basionym: *Hypnum minutissimum* Sullivant & Lesquereux, 1856 [1857].

P. madurensis (Cardot & Potier de la Varde in Potier de la Varde) R. S. Chopra, Taxon. Indian Mosses 450. 1975.
Basionym: *Amblystegiella madurensis* Cardot & Potier de la Varde in Potier de la Varde, 1923.

P. minutissima (Sullivant & Lesquereux) H. Crum, Bryologist 72: 244. 1969, "*minutissimum*."
Basionym: *Hypnum minutissimum* Sullivant & Lesquereux, 1856 [1857].

P. shiroumensis Kanda, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 15: 225. f. 11: 31-42; 12. 1975 [1976].
Type: Japan [Honshu]. Nagano: NJ-53-5, Shiroumadake, Mt. Shirouma, 1880 m, *Kanda 8596*. Holotype: HIRO.

P. subtile (Hedwig) H. Crum, Michigan Bot. 3: 60. 1964.
Basionym: *Leskea subtilis* Hedwig, 1801.
Note: the citations for this combination in Taxon 26: 301. 1977 and Taxon 28: 257. 1979 are incorrect.

Platygyriella Cardot, 1910.

P. aurea (Schwägrichen) Buck, Brittonia 36: 86. 1984.
Basionym: *Neckera aurea* Schwägrichen, 1827.

P. aureoides (Brotherus & Paris) Buck, Brittonia 36: 86. 1984.
Basionym: *Pylaisaea aureoides* Brotherus & Paris, 1907.

P. densa (W. J. Hooker in Kunth) Buck, Brittonia 36: 86. 1984.
Basionym: *Leskea densa* W. J. Hooker in Kunth, 1822.

P. fragilifolia (Dixon) Buck, Brittonia 36: 87. 1984.
Basionym: *Trachyphyllum fragilifolium* Dixon, 1938.

P. jamaicensis E. B. Bartram, J. Wash. Acad. Sci. 26: 14. f. 5. 1936.
Other use: *Isopterygium jamaicense* (E. B. Bartram) Buck, 1984.

P. kirtikarii (Cardot & Dixon in Dixon) Buck, Brittonia 36: 87. 1984.
Basionym: *Bryosedgwickia kirtikarii* Cardot & Dixon in Dixon, 1912.

Platygyriella, continued.
P. pringlei (Cardot) Buck, Brittonia 36: 87. 1984.
Basionym: *Erythrodontium pringlei* Cardot, 1910.

Platygyrium Bruch & W. P. Schimper in B.S.G., 1851, conserved name.
P. ussuriense Dixon & Lazarenko in Lazarenko, Bot. Zhurn. (Kiev) 2: 197. 1945.
Note: not in Index Muscorum.

Platyhypnidium Fleischer, Musci Buitenzorg 4: 1536. 1923.
Other use: *Eurhynchium* subgen. *Platyhypnidium* (Fleischer) H. Robinson, 1962 [1963].
P. delicatulum Sakurai, Bot. Mag. (Tokyo) 46: 380. 1932.
Other use: *Eurhynchium delicatulum* (Sakurai) Iwatsuki & Noguchi, 1973.
P. hedbergii (Potier de la Varde) Ochyra & A. J. Sharp, J. Hattori Bot. Lab. 65: 636. 1988.
Basionym: *Hygrohypnum hedbergii* Potier de la Varde, 1955 [1957].
P. riparioides (Hedwig) Dixon, 1934.
P. riparioides var. *coreanum* (Cardot) Wijk & Margadant, Taxon 14: 197. 1965.
Basionym: *Rhynchostegium rusciforme* var. *coreanum* Cardot, 1912.
P. wildei Zanten, Nova Guinea, Bot. 10: 320. pl. 28: f. 2. 1964.
Type: Indonesia [New Guinea]. Irian Barat: Sibil Valley, Sangjan, 1500 m, *De Wilde 854*. Holotype: L; isotype: GRO.

Pleuridiella H. Robinson, J. Hattori Bot. Lab. 27: 125. 1964.
Type: *P. colei* Robinson, holotype.
Original placement: Ditrichaceae.
P. colei H. Robinson, J. Hattori Bot. Lab. 27: 125. 1964.
Type: India. Upper Assam, Jorhat, *Cole 10*. Holotype: US; isotype: TENN.
Other use: *Pleuridium colei* (H. Robinson) Deguchi & Matsui, 1985.

Pleuridium Rabenhorst, 1848, conserved name.
P. sect. *Sporledera* (Hampe) Nyholm, Ill. Fl. Nord. Mosses 1: 18. 1986.
Basionym: *Sporledera* Hampe, 1837.
P. aurantiacum Snider & Delgadillo M., Bryologist 91: 181. f. 1-17. 1988.
Type: Mexico. Mexico: 4 km NW de Villa Victoria, *Castilla 2355*. Holotype: MEXU.
P. colei (H. Robinson) Deguchi & Matsui, J. Jap. Bot. 60: 330. 1985.
Basionym: *Pleuridiella colei* H. Robinson, 1964.
P. curvisetum Stone, J. Bryol. 9: 229. f. 1-2: a-k. pl. 1: a-c. 1976, "*curvisetum*."
Type: Australia. Victoria: Bogong High Plains, seepage area at the side of the road to Mt. McKay, 36°52' S, 147°15' E, 1800 m, *Stone 11319*. Holotype: MEL; isotypes: MELU, herb. Stone. Paratypes cited.
P. ecklonii (Hampe ex Mitten) Snider, J. Hattori Bot. Lab. 39: 155. 1975.
Basionym: *Archidium ecklonii* Hampe ex Mitten, 1886.
P. exsertum E. B. Bartram, Bryologist 52: 23. 1949.
Other use: *Astomiopsis exserta* (E. B. Bartram) Snider, 1987 [1988].

Pleuridium, continued.

P. kieneri E. B. Bartram, Bryologist 52: 24. f. 1-8. 1949.
Other use: *Astomiopsis kierneri* (E. B. Bartram) Delgadillo M. & Cardenás-Soriano, 1984 [1985].

P. lindigianum (Hampe) Churchill, Bryologist 91: 117. 1988.
Basionym: *Sporledera lindigiana* Hampe, 1865.

P. mexicanum Cardot, Rev. Bryol. 37: 118. 1910.
Other use: *Pleuridium sullivantii* var. *mexicanum* (Cardot) Cardenás-Soriano, 1987.

P. nitidum (Hedwig) Rabenhorst, 1848.

P. nitidum var. *elatum* Bruch & W. P. Schimper in B.S.G., Bryol. Eur. 1: 38. pl. 9: nitidum, *β*: 1-2 (fasc. 43. Monogr. 2. pl. 1: nitidum, *β*: 1-2). 1850.
Other use: *Pseudephemerum nitidum* fo. *elatum* (Bruch & W. P. Schimper in B.S.G.) Margadant, 1972.

P. papillosum Magill, Fl. S. Africa, Bryophyta, Mosses 1: 88. f. 22: 1-12. 1981 [1982].
Type: South Africa. Cape: 11 km S of Clanwilliam on road to Algeria Forest Station, *Schelpe 7624*. Holotype: BOL; isotypes: CINC, MO, PRE.

P. subenerve (Hampe) Churchill, Trop. Bryol. 1: 102. 1989, "*subenervis*."
Basionym: *Sporledera subenervis* Hampe, 1865.

P. sullivantii Austin, 1877, "*sullivanti*."

P. sullivantii var. *mexicanum* (Cardot) Cardenás-Soriano, Cryptog. Bryol. Lichénol. 8: 308. 1987.
Basionym: *Pleuridium mexicanum* Cardot, 1910.

P. venezuelanum Griffin, Bull. Torrey Bot. Club 114: 18. f. 1. 1987.
Type: Venezuela. Merida: paramo de Mucubaji, *Griffin, Lopez & Ruiz-Teran 1057*. Holotype: MERF; isotypes: FLAS, NY. Other indicated distribution: Costa Rica.
Original placement: sect. *Sclerastomum*.

Pleurophascum Lindberg, 1875.

P. occidentale Wyatt & Stoneburner, Bryologist 92: 299. f. 1-5. 1989.
Type: Australia. Western Australia: Robinson's Gully, Two Peoples Bay Nature Reserve, 30 km E of Albany, *Stoneburner & Wyatt 4373*. Holotype: DUKE; isotypes: CHR, MICH, MO, NY, PERTH, US. Paratypes cited.

***Pleuropus** Griffith, 1842.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Pleuropus* Persoon ex S. Gray, 1821.
Correct name: *Palamocladium* C. Müller, 1896.

P. luzonensis Brotherus, Leafl. Philipp. Bot. 2(37): 657. 1909.
Other use: *Palamocladium nilgheriense* fo. *luzonense* (Brotherus) Noguchi & Iwatsuki in Iwatsuki & Noguchi, 1973.

Pleuropus, continued.
P. sciureus (Mitten) Toyama, 1938.
P. sciureus fo. *filirameus* Takaki, J. Hattori Bot. Lab. 14: 15. 1955.
Other use: *Palamocladium macrostegium* fo. *filirameum* (Takaki) Takaki & Iwatsuki in Iwatsuki, 1966.
P. sciureus fo. *pilifolius* Toyama, Acta Phytotax. Geobot. 7: 105. 1938.
Other use: *Palamocladium macrostegium* fo. *pilifolium* (Toyama) Takaki & Iwatsuki in Iwatsuki, 1966.

Pocsiella Bizot, Cryptog. Bryol. Lichénol. 1: 424. 1980.
Type: *P. hydrogonioides* Bizot, holotype.
Original placement: not indicated by author.
P. hydrogonioides Bizot, Cryptog. Bryol. Lichénol. 1: 424. pl. 1: f. 2. 1980.
Type: Tanzania. Kilimanjaro Mts., along the Umbwe route, near the 1st Bivouac, 2800-2900 m, *Pócs 6788/AM*. Holotype: EGR; isotype: herb. Bizot.

Podperaea Iwatsuki & Glime, J. Hattori Bot. Lab. 55: 495. 1984.
Type: *Chrysohypnum krylovii* Podpera, *P. krylovii* (Podpera) Iwatsuki & Glime, holotype.
Original placement: Hypnaceae.
P. krylovii (Podpera) Iwatsuki & Glime, J. Hattori Bot. Lab. 55: 495. 1984.
Basionym: *Chrysohypnum krylovii* Podpera, 1929.

Pogonatum Palisot de Beauvois, 1804.
P. sect. *Contortia* Chen Pan-chieh & Wan Thung-ling, Gen. Musc. Sin. 2: 304. 1978.
Type: *Polytrichum contortum* Bridel, *P. contortum* (Bridel) Lesquereux, holotype.
Note: "*Contortium*" on errata sheet.
P. sect. *Fastigiatia* Chen Pan-chieh & Wan Thung-ling, Gen. Musc. Sin. 2: 304. 1978.
Type: *Pogonatum fastigiatum* Mitten, holotype.
Note: "*Fastigiatium*" on errata sheet.
P. sect. *Microstoma* Chen Pan-chieh & Wan Thung-ling, Gen. Musc. Sin. 2: 304. 1978.
Type: *Polytrichum microstomum* Schwaegrichen, *P. microstomum* (Schwaegrichen) Bridel, holotype.
P. sect. *Racelopus* (Dozy & Molkenboer) Touw, J. Hattori Bot. Lab. 60: 11. 1986.
Basionym: *Racelopus* Dozy & Molkenboer, 1855.
P. afrournigerum Bizot, Acta Bot. Acad. Sci. Hung. 18: 18. f. 6: 1-3, 1'-3'. 1973.
Type: Cameroun. Mt. Cameroun, 4000 m, *Balazs 82*. Holotype: DI; isotype: EGR.
P. akitense Bescherelle, 1893.
P. akitense var. *urasawai* (Sakurai) Osada, J. Hattori Bot. Lab. 28: 200. 1965.
Basionym: *Pogonatum urasawai* Sakurai, 1938.

Pogonatum, continued.

P. alienum G. L. Smith, Bryologist 78: 480. f. 1-14. 1975 [1976].
Type: Guatemala. *Godman & Salvin s.n.* Holotype: NY; isotypes: B, BM, H.

P. aloides (Hedwig) Palisot de Beauvois, 1805.

P. aloides fo. *neesii* (C. Müller) Gangulee, Mosses E. India 1: 100. 1969.
Basionym: *Polytrichum neesii* C. Müller, 1851.

P. alpinum (Hedwig) Röhling, 1814.

P. alpinum var. *fragile* (Bryhn) H. Crum, Bryologist 74: 168. 1971.
Basionym: *Polytrichum fragile* Bryhn, 1906.

P. alpinum subsp. *macounii* (Kindberg) Persson in Persson & Viereck, Lindbergia 9: 16. 1983.
Basionym: *Polytrichum macounii* Kindberg, 1889.

P. camusii (Thériot) Touw, J. Hattori Bot. Lab. 60: 26. 1986.
Basionym: *Racelopodopsis camusii* Thériot, 1907.

P. cirratum (Swartz) Bridel, 1827.

P. cirratum subsp. *fuscatum* (Mitten) Hyvoenen, Acta Bot. Fenn. 138: 32. 1989.
Basionym: *Pogonatum fuscatum* Mitten, 1859.

P. cirratum subsp. *macrophyllum* (Dozy & Molkenboer) Hyvoenen, Acta Bot. Fenn. 138: 33. 1989.
Basionym: *Pogonatum macrophyllum* Dozy & Molkenboer, 1856.

**P. crossidioides* Chen Pan-chieh ex Wu Pan-cheng, Lou Jian-shing & Wang Mei-zhi, Gloss. Terms Names Bryoph. 95. 1984.
*invalid, no Latin description (Article 36.1).

P. decolyi Brotherus ex Gangulee, Nova Hedwigia 13: 126. 1966 [1967].
Type: India. Darjeeling, *Decoly & Schaul 2361* (Bryoth. Levier). Holotype: BM.
Note: invalid, no description (Article 41.3), in Bruehl, Rec. Bot. Surv. India 13(1): 126. 1931.

P. fastigiatum Mitten, 1859.

P. fastigiatum var. *darjeelingense* Gangulee, Nova Hedwigia 12: 417. pl. 1. 1966 [1967].
Type: India. Darjeeling, *Gangulee 5641*. Holotype: Presidency College, Calcutta.

P. fuscatum Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 154. 1859.
Other use: *Pogonatum cirratum* subsp. *fuscatum* (Mitten) Hyvoenen, 1989.

**P. iliangense* Chen Pan-chieh & Wan Thung-ling in Chen Pan-chieh, Gen. Musc. Sin. 2: 302. 1978.
*invalid, no Latin description (Article 36.1).

P. iwatsukii Touw, J. Hattori Bot. Lab. 60: 23. 1986.
Replaced name: *Racelopus acaulis* Mitten in Stapf, 1894.
Blocking name: *Pogonatum acaule* W. P. Schimper ex Paris, 1900.

**P. longicollum* Chen Pan-chieh & Wan Thung-ling in Chen Pan-chieh, Gen. Musc. Sin. 2: 304. 1978.
*invalid, no Latin description (Article 36.1).

Pogonatum, continued.

P. macrophyllum Dozy & Molkenboer, Bryol. Jav. 1: 45. pl. 35. 1856.
Other use: *Pogonatum cirratum* subsp. *macrophyllum* (Dozy & Molkenboer) Hyvoenen, 1989.

P. macrophyllum var. *darjeelingense* Gangulee, Nova Hedwigia 12: 418. pl. 2. 1966 [1967].
Type: India. Sinchol, prope Darjeeling, *Wichura 2133*. Holotype: BM.

P. macrophyllum var. *tenue* Pócs & Tixier, Bot. Közelem. 54: 37. 1967.
Type: Vietnam. Cime de Phan-si-pan, 2000-3000 m, *Trung s.n.* Holotype: BP.

P. manchuricum Horikawa, J. Jap. Bot. 12: 24. f. 10. 1936.
Other use: *Polytrichum manchuricum* (Horikawa) Gao Chien & Chang Kung-chu, 1983.

P. marginatum Mitten, J. Proc. Linn. Soc., Bot., Suppl., 1: 153. 1859.
Other use: *Plagioracelopus marginatus* (Mitten) G. L. S. Merrill, 1987, *Pseudoracelopus marginatus* (Mitten) G. L. Smith, 1969.

P. microstomum (Schwägrichen) Bridel, 1827.

P. microstomum var. *ciliatum* Xu Wen-xuan & Xiong Ruo-li, Acta Bot. Yunnan. 6: 183. f. 8: 15-18. 1984.
Type: China. Xizang: Nyingchi Xian, Mainling Xian, Gyirong, Xian, 3200-3700 m, *Chen 265*. Holotype: YUKU.

P. minus Xu Wen-xuan & Xiong Ruo-li, Acta Bot. Yunnan. 4: 51. f. 1. 1982.
Type: China. Yunnan: Xundian Xiun, 2120 m, *Xu 77105*. Holotype: YUKU.

P. misimense (E. B. Bartram) Touw, J. Hattori Bot. Lab. 60: 20. 1986.
Basionym: *Pseudoracelopus misimensis* E. B. Bartram, 1960.

P. neesii (C. Müller) Dozy, 1856.

P. neesii var. *urasawai* (Sakurai) Iwatsuki & Noguchi, J. Hattori Bot. Lab. 46: 236. 1979.
Basionym: *Pogonatum urasawai* Sakurai, 1938.

P. nipponicum Noguchi & Osada in Osada, J. Hattori Bot. Lab. 28: 195. f. 10. 1965.
Type: Japan [Kyushu]. Miyazaki: Mt. Shinmoe, *Noguchi 9329*. Holotype: herb. Noguchi.

**P. norkettii* R. S. Chopra, Taxon. Indian Mosses 25. 1975.
*invalid, no Latin description (Article 36.1).

P. norrisii Hyvoenen, Acta Bot. Fenn. 138: 48. f. 14. 1989.
Type: Domincan Republic. La Vega: ca. 13 km from Vallen Nuevo on the road to San Jose de Ocoa, 2500 m, *Norris B7155*. Holotype: H; isotype: MO.
Other indicated distribution: Haiti, Jamaica.
Original placement: subgen. *Pogonatum*.

P. nudiusculum Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 153. 1859.
Other use: *Pseudatrichum nudiusculum* (Mitten) G. L. S. Merrill, 1987.

P. papillosum Horikawa, Bot. Mag. (Tokyo) 48: 717. f. 4. 1934.
Other use: *Racelopodopsis papillosa* (Horikawa) G. L. Smith, 1969.

Pogonatum, continued.

P. perichaetiale (Montagne) Jaeger, 1875.

P. perichaetiale subsp. *oligodus* (Kunze ex C. Müller) Hyvoenen, Acta Bot. Fenn. 138: 15. 1989.

Basionym: *Polytrichum oligodus* Kunze ex C. Müller, 1848 [May].

P. perichaetiale subsp. *thomsonii* (Mitten) Hyvoenen, Acta Bot. Fenn. 138: 15. 1989.

Basionym: *Polytrichum thomsonii* Mitten, 1859.

P. petelotii (Thériot & R. Henry) Touw, J. Hattori Bot. Lab. 60: 25. 1986.

Basionym: *Pseudoracelopus petelotii* Thériot & R. Henry, 1928.

P. philippinense (Brotherus) Touw, J. Hattori Bot. Lab. 60: 16. 1986.

Basionym: *Pseudoracelopus philippinensis* Brotherus, 1910.

P. piliferum (Dozy & Molkenboer) Touw, J. Hattori Bot. Lab. 60: 29. 1986.

Basionym: *Racelopus pilifer* Dozy & Molkenboer, 1856.

P. potieri Demaret & J. Leroy, Explor. Parc Natl. Albert, Mission Lebrun 6: 60. f. 65-57. 1944.

Note: Index Muscorum cites the redundant description from Ark. Bot. 3(8): 197. 1948.

P. strictifolium Brotherus ex Gangulee, Nova Hedwigia 12: 419. pl. 2. 1966 [1967].

Type: India. Darjeeling, Safpancho, *Hartless 2664* (Bryoth. Levier). Holotype: BM.

Note: invalid, no description (Article 41.3), in Bruehl, Rec. Bot. Surv. India 13(1): 126. 1931.

P. suzukii Brotherus, Ann. Bryol. 1: 26. 1928.

Other use: *Oligotrichum suzukii* (Brotherus) Chuang Ching-chang, 1973.

Original placement: *Anasmogonium*.

P. thomsonii (Mitten) Jaeger, 1875.

P. thomsonii var. *tibetanum* Chen Pan-chieh, Zhumulangma Feng Diqu Kexue Kaocha Baogao 235. f. 14. 1962.

Note: not in Index Muscorum.

P. urasawai Sakurai, Bot. Mag. (Tokyo) 52: 473. 1938.

Other use: *Pogonatum akitense* var. *urasawai* (Sakurai) Osada, 1965, *Pogonatum neesii* var. *urasawai* (Sakurai) Iwatsuki & Noguchi, 1979.

Pohlia Hedwig, 1801.

P. sect. *Webera* (Relhan) Margadant, Lindbergia 1: 129. 1972.

Basionym: *Bryum* sect. *Webera* Relhan, 1802.

P. acuminata Hoppe & Hornschuch, Flora 2: 94. 1819.

Other use: *Bryum acuminatum* (Hoppe & Hornschuch) Bruch & W. P. Schimper, 1839.

P. ampullacea Hampe in C. Müller ex Gangulee, Mosses E. India 4: 921. f. 440. 1974.

Type: India. Darjeeling-Sikkim, ca. 2000 m, *Kurz 2514*. Holotype: BM.

Pohlia, continued.

P. andrewsii A. J. Shaw, Bryologist 84: 70. f. 11-34. 1981.
Type: Canada. Yukon: Dawson area, 17 km E of Alaska-Yukon border, *Shaw 3619*. Holotype: ALTA; isotypes ALA, CANM, COLO, GL, H, IRK, LE, MICH, NICH, NY, PE, S, UBC. Other indicated distribution: U.S.A. (Alaska).

P. annotina Lindberg, 1879.

P. annotina var. *decipiens* Loeske, Verh. Bot. Vereins Prov. Brandenburg 46: 201. 1905.
Other use: *Pohlia camptotrachela* var. *decipiens* (Loeske) Nyholm, 1969.

**P. annotina* var. *loeskei* H. Crum, Steere & L. E. Anderson, Bryologist 68: 434. 1965 [1966].
*illegitimate, type of earlier name included (Article 63.1).
Correct name: *Pohlia annotina* var. *decipiens* Loeske, 1905.

P. apiculata (Schwägrichen) H. Crum & L. E. Anderson, Mosses E. N. Amer. 1: 534. 1981.
Basionym: *Bryum apiculatum* Schwägrichen, 1816.

P. aristatula (Brotherus & Paris) H. A. Miller, H. O. Whittier & B. Whittier, Bryoph. Biblioth. 16: 228. 1978.
Basionym: *Webera aristatula* Brotherus & Paris, 1909.

P. australis A. J. Shaw & Fife, New Zealand J. Bot. 23: 183. f. 1-8. 1985.
Type: New Zealand. South Island: Buller Co., Paparos Mountains, cirque on east flank of Mt. Priestly, 1050-1140 m, *Fife 5487*. Holotype: CHR. Paratype cited.

P. baldwinii (Brotherus ex E. B. Bartram) Schultze-Motel, Willdenowia 3: 101. 1962.
Basionym: *Webera baldwinii* Brotherus ex E. B. Bartram, 1933.
Note: not in Index Muscorum.

P. barbuloides Ochi, J. Fac. Educ. Tottori Univ., Nat. Sci. 34: 88. 1985.
Replaced name: *Bryum barbuloides* Brotherus, 1929.
Blocking name: *Bryum barbuloides* C. Müller, 1897.
Note: new name, based on adoption of earlier epithet (Article 72.Note 1).

P. bequaertii (Dixon & Naveau) A. J. Shaw, Mem. New York Bot. Gard. 45: 683. 1987.
Basionym: *Mielichhoferia bequaertii* Dixon & Naveau, 1927.

P. beringiensis A. J. Shaw, Contr. Univ. Michigan Herb. 15: 260. f. 21. 1982.
Type: U.S.A. Alaska: Paxson area, 11.7 km W of Paxson on Hwy. 8, *Shaw 3794*. Holotype: MICH.

P. bolanderi (Lesquereux) Brotherus, 1903.

P. bolanderi var. *seriata* A. J. Shaw, Contr. Univ. Michigan Herb. 15: 240. f. 9. 1982.
Type: U.S.A. Colorado: Gilpin Co., 5 miles E of Corona Pass on Corona Pass Rd., *Shaw 2628*. Holotype: MICH; isotype: herb. Shaw.

Pohlia, continued.

P. camptotrachela (Renauld & Cardot) Brotherus, 1903.

P. camptotrachela var. *decipiens* (Loeske) Nyholm, Ill. Moss Fl. Fennoscandia. II. Musci 775. 1969.

Basionym: *Pohlia annotina* var. *decipiens* Loeske, 1905.

Note: redundant combination in Ochyra & Szmajda, Fragm. Florist. Geobot. 24: 142. 1978.

P. camptotrachela var. *glareola* (Ruthe & Grebe) Wijk & Margadant, Taxon 14: 197. 1965.

Basionym: *Webera annotina* var. *glareola* Ruthe & Grebe, 1901.

**P. cavalieri* (Thériot) Chen Pan-chieh ex Wu Pan-cheng, Lou Jian-shing & Wang Mei-zhi, Gloss. Terms Names Bryoph. 96. 1984.

*invalid, basionym not cited (Article 33.2).

P. chilensis (Montagne) A. J. Shaw, Mem. New York Bot. Gard. 45: 684. 1987.

Basionym: *Leptochlaena chilensis* Montagne, 1845.

P. chrysoblasta (Thériot & Naveau) Demaret in Demaret & Potier de la Varde, Bull. Jard. Bot. Natl. Belgique 47: 419. 1977.

Basionym: *Webera chrysoblasta* Thériot & Naveau, 1927.

P. clavicaulis (Brotherus in Herzog) F. J. Hermann, Bryologist 79: 141. 1976.

Basionym: *Webera clavicaulis* Brotherus in Herzog, 1916.

P. curviseta Hoppe & Hornschuch, Flora 2(1): 98. 1819.

Other use: *Pohlia minor* fo. *curviseta* (Hoppe & Hornschuch) Margadant, 1972.

P. depauperata (Sim) Schelpe in Magill & Schelpe, Mem. Bot. Surv. South Africa 43: 7. 1979.

Basionym: *Webera depauperata* Sim, 1926.

P. elongata Hedwig, 1801.

P. elongata var. *greenii* (Bridel) A. J. Shaw, Contr. Univ. Michigan Herb. 15: 234. 1982.

Basionym: *Pohlia greenii* Bridel, 1819 [1818].

P. elongata var. *polymorpha* (Hoppe & Hornschuch) Nyholm, Ill. Moss Fl. Fennoscandia. II. Musci 775. 1969.

Basionym: *Pohlia polymorpha* Hoppe & Hornschuch, 1819.

P. emergens (C. Müller) A. J. Shaw, Mem. New York Bot. Gard. 45: 684. 1987.

Basionym: *Bryum emergens* C. Müller, 1879.

P. flexuosa W. J. Hooker, 1836.

P. flexuosa var. *propagulifera* (Renauld & Cardot) Gangulee, Mosses E. India 4: 910. 1974.

Basionym: *Webera flexuosa* var. *propagulifera* Renauld & Cardot, 1902-1903 [1905].

P. gedeana (Bosch & Sande Lacoste) Gangulee, Mosses E. India 4: 927. 1974.

Basionym: *Bryum gedeanum* Bosch & Sande Lacoste, 1860.

P. geniculata (Bridel) Wijk & Margadant, Taxon 14: 197. 1965.

Basionym: *Webera geniculata* Bridel, 1827.

Pohlia, continued.

**P. graciliformis* (Cardot & Thériot) Chen Pan-chieh, Gen. Musc. Sin. 1: 256. 1963.
*invalid, basionym not cited (Article 33.2).

**P. gracilis* (Bruch & W. P. Schimper) Lindberg, Musci Scand. 17. 1879.
*illegitimate, later homonym (Article 64.1).
Basionym: *Bryum ludwigii* var. *gracile* Bruch & W. P. Schimper, 1839.
Earlier name: *Pohlia gracilis* Hoppe & Hornschuch, 1819.
Correct name: *Pohlia schleicheri* H. Crum, 1969.

P. greenii Bridel, Muscol. Recent. Suppl. 4: 115. 1819 [1818].
Other use: *Pohlia elongata* var. *greenii* (Bridel) A. J. Shaw, 1982.

P. hisae T. Koponen & Lou Jian-shing, Hikobia 9: 315. f. 1. 1986.
Type: China. Sichuan: Weng-chwan, Wo-long Nature Preserve, 4010 m, *Lou*, 1981. Holotype: H; isotype: PE.

P. inflexa (C. Müller in Neumayer) Wijk & Margadant, Taxon 14: 197. 1965.
Basionym: *Bryum inflexum* C. Müller in Neumayer, 1890.

P. integra (Cardot) A. J. Shaw, Contr. Univ. Michigan Herb. 15: 285. 1982.
Basionym: *Webera integra* Cardot, 1911.

**P. laticuspes* (Brotherus) Chen Pan-chieh, Gen. Musc. Sin. 1: 256. 1963.
*invalid, basionym not cited (Article 33.2).

P. lescuriana (Sullivant) Ochi, J. Fac. Educ. Tottori Univ., Nat. Sci. 19: 31. 1968.
Basionym: *Bryum lescurianum* Sullivant, 1849.

P. loriformis (Herzog) F. J. Hermann, Bryologist 79: 141. 1976.
Basionym: *Webera loriformis* Herzog, 1916.

P. macleai (Rehmann ex Sim) Schelpe in Magill & Schelpe, Mem. Bot. Surv. South Africa 43: 7. 1979.
Basionym: *Webera macleai* Rehmann ex Sim, 1926.

P. mauiensis (Brotherus ex E. B. Bartram) Schultze-Motel, Willdenowia 3: 101. 1962.
Basionym: *Webera mauiensis* Brotherus ex E. B. Bartram, 1933.
Note: not in Index Muscorum.

P. melanodon (Bridel) A. J. Shaw, Bryologist 84: 506. 1981 [1982].
Basionym: *Bryum melanodon* Bridel, 1826.

P. minor Schleicher ex Schwägrichen, 1816.

P. minor fo. *contorta* Tosco, Webbia 28: 290. 1973.
Type: Italy. Gran Paradiso, Parco Nazionale, Valle di Cogne, Cogne, *Tosco*, 1954. Holotype: herb. Tosco.

P. minor fo. *curvirostrum* (Bruch & W. P. Schimper) Margadant, Lindbergia 1: 129. 1972, "*curvirostris*."
Basionym: *Bryum acuminatum* [rank not indicated] *curvirostrum* Bruch & W. P. Schimper, 1839.

P. minor fo. *curviseta* (Hoppe & Hornschuch) Margadant, Lindbergia 1: 129. 1972.
Basionym: *Pohlia curviseta* Hoppe & Hornschuch, 1819.
Note: valid, error of bibliographic citation of basionym (Article 33.2), "*Bryum polymorphum* subvar. *curvisetum*."

Pohlia, continued.

P. minor var. *pulchella* (Hoppe & Hornschuch) Demaret & R. Wilczek, Bull. Jard. Bot. Natl. Belgique 48: 449. 1978.
Basionym: *Pohlia pulchella* Hoppe & Hornschuch, 1819.

P. muyldermansii R. Wilczek & Demaret, Bull. Jard. Bot. Natl. Belgique 40: 417. f. 2. 1970.
Type: Belgium. Campinien: Commel, Nortels, Elzen, *Demaret & Wilczek 50*. Holotype: BR. Other indicated distribution: Netherlands.

P. muyldermansii var. *pseudomuyldermansii* Arts & A. J. E. Smith, J. Bryol. 14: 642. f. 3. 1987.
Type: Ireland. Muckanaght, West Galway (H16), *Perry*, 1968. Holotype: NMW; isotype: herb. Perry. Other indicated distribution: Austria, Britain, Switzerland.

P. nutans (Hedwig) Lindberg, 1879.

P. nutans fo. *decipiens* R. Wilczek & Demaret, Bull. Jard. Bot. Natl. Belgique 41: 470. 1971.
Type: Belgium. Ardennais: Hockae, *Cardot*, 1907. Holotype: BR. Other indicated distribution: Czechoslovakia, U.S.A.

P. nutans var. *gypsophila* (Wallroth) Wijk & Margadant, Taxon 14: 197. 1965.
Basionym: *Bryum gypsophilum* Wallroth, 1831.

P. nutans subsp. *otaruensis* (Cardot) Ochi, J. Fac. Educ. Tottori Univ., Nat. Sci. 19: 30. 1968.
Basionym: *Webera otaruensis* Cardot, 1909.

P. nutans subsp. *schimperi* (C. Müller) Nyholm, Ill. Moss Fl. Fennoscandia. II. Musci 775. 1969.
Basionym: *Bryum schimperi* C. Müller, 1848.
Note: invalid, basionym not cited (Article 33.2), in Ill. Moss Fl. Fennoscandia. II. Musci 205. 1958.

P. ochii Vitt, Bryologist 74: 471. f. 4, 23-27. 1971 [1972].
Type: New Zealand. Campbell Island: edge of Mt. Lyall Ridge, 2.7 miles W of Perseverance Harbor entrance, *Vitt 2183*. Holotype: NY; isotypes: NICH, herb. Ochi.

P. oerstediana (C. Müller) A. J. Shaw, Contr. Univ. Michigan Herb. 15: 238. 1982.
Basionym: *Bryum oerstedianum* C. Müller, 1851.

P. pacifica A. J. Shaw, Contr. Univ. Michigan Herb. 15: 268. f. 25. 1982.
Type: U.S.A. California: Del Norte Co., Del Norte Redwoods State Park, S boundary, *Shaw 4173*. Holotype: MICH; isotype: herb. Shaw.

P. polymorpha Hoppe & Hornschuch, Flora 2: 100. 1819.
Other use: *Pohlia elongata* var. *polymorpha* (Hoppe & Hornschuch) Nyholm, 1969.

**P. propagulifera* Brotherus ex Chen Pan-chieh, Gen. Musc. Sin. 1: 256. 1963.
*invalid, no Latin description (Article 36.1).

P. pseudobarbula (Thériot) H. Crum ex A. J. Shaw, Contr. Univ. Michigan Herb. 15: 254. 1982.
Basionym: *Webera pseudobarbula* Thériot, 1931.

Pohlia, continued.

P. pulchella Hoppe & Hornschuch, Flora 2(1): 95. 1819.
Other use: *Pohlia minor* var. *pulchella* (Hoppe & Hornschuch) Demaret & R. Wilczek, 1978.

**P. pygmaea* (Brotherus) Chen Pan-chieh, Gen. Musc. Sin. 1: 256. 1963.
*invalid, basionym not cited (Article 33.2).

P. richardsii A. J. Shaw, Contr. Univ. Michigan Herb. 15: 253. f. 16. 1982.
Type: Costa Rica. Volcan Poas, ca. 2500 m, *Richards R 6010*. Holotype: MICH.

P. schleicheri H. Crum, Bryologist 72: 244. 1969.
Replaced name: *Pohlia gracilis* (Bruch & W. P. Schimper) Lindberg, 1879.
Blocking name: *Pohlia gracilis* Hoppe & Hornschuch, 1819.

P. scotica Crundwell, J. Bryol. 12: 7. f. 1. 1982.
Type: United Kingdom. Scotland: Argyll, River Orchy, below Beinn Udlaidh, ca. 300 feet (95 m), *Stirling, Rodway & Crundwell*, 1964. Holotype: GL; isotype: E.

P. simii Schelpe in Magill & Schelpe, Mem. Bot. Surv. South Africa 43: 7. 1979.
Replaced name: *Webera revoluta* Sim, 1926.
Blocking name: *Webera revoluta* Cardot, 1909.

P. subleptopoda (Brotherus in Herzog) F. J. Hermann, Bryologist 79: 142. 1976.
Basionym: *Webera subleptopoda* Brotherus in Herzog, 1916.

**P. timmioides* Chen Pan-chieh, Gen. Musc. Sin. 1: 256. f. 160: 9. 1963.
*invalid, no Latin description (Article 36.1).

P. tundrae A. J. Shaw, Bryologist 84: 65. f. 1-10. 1981.
Type: U.S.A. Colorado: Pitkin Co., top of Independence Pass, *Shaw 2595*. Holotype: ALTA; isotypes: CANM, COLO, GL, H, IRK, LE, MICH, NICH, NY, PE, S, UBC. Other indicated distribution: Canada (British Columbia), U.S.A. (Alaska, Arizona, California, Colorado, Idaho, Montana, Nevada, Oregon, Utah, Washington, Wyoming).

P. turgens (Brotherus) A. J. Shaw, Mem. New York Bot. Gard. 45: 683. 1987.
Basionym: *Mielichhoferia turgens* Brotherus, 1916.

**P. turonensis* J. M. Couderc & Guedes, Feddes Repert. 87: 481. 1976.
*invalid, single element not cited as holotype (Article 37.3).
Type: France. Indre-et-Loire: Toubiere de Tremblay, Saint-Roch, collector not indicated by authors. Herbarium: PC.

P. wahlenbergii (Weber & D. Mohr) Andrews in Grout, 1935.

P. wahlenbergii var. *calcarea* (Warnstorf) E. F. Warburg, Trans. Brit. Bryol. Soc. 4: 248. 1962 [1963].
Basionym: *Webera calcarea* Warnstorf, 1899.

P. wahlenbergii var. *glacialis* (Bridel) E. F. Warburg, Trans. Brit. Bryol. Soc. 4: 247. 1962 [1963].
Basionym: *Bryum glaciale* Bridel, 1826.

Polytrichadelphus (C. Müller) Mitten, 1859.

P. lyallii Mitten, J. Proc. Linn. Soc., Bot. 8: 49. pl. 8. 1864.
Other use: *Polytrichastrum lyallii* (Mitten) G. L. Smith, 1971, *Polytrichum lyallii* (Mitten) Kindberg, 1894.

Polytrichadelphus, continued.

P. minimus Cardot, Bull. Herb. Boissier, sér. 2, 5: 1008. 1905.
Other use: *Notoligotrichum minimum* (Cardot) G. L. Smith, 1971, *Psilopilum minimum* (Cardot) G. L. Smith, 1969.

P. pseudopolytrichum (Raddi) G. L. Smith, Bryologist 79: 521. 1976 [1977].
Basionym: *Catharinea pseudopolytrichum* Raddi, 1821.

P. rubescens (Mitten) G. L. Smith, Phytologia 18: 403. 1969.
Basionym: *Polytrichum rubescens* Mitten, 1869.

P. subrubescens (Thériot) G. L. Smith, Phytologia 18: 403. 1969.
Basionym: *Polytrichum subrubescens* Thériot, 1936.

Polytrichastrum G. L. Smith, Mem. New York Bot. Gard. 21(3): 35. 1971.
Type: *Polytrichum alpinum* Hedwig, *P. alpinum* (Hedwig) G. L. Smith, holotype.
Original placement: Polytrichaceae.

P. sect. *Meiotrichum* G. L. Smith, Mem. New York Bot. Gard. 21(3): 40. 1971.
Type: *Polytrichadelphus lyallii* Mitten, *P. lyallii* (Mitten) G. L. Smith, holotype.

P. sect. *Sexangularia* (Bruch & W. P. Schimper in B.S.G.) G. L. Smith, Mem. New York Bot. Gard. 21(3): 35. 1971.
Basionym: *Polytrichum* sect. *Sexangularia* Bruch & W. P. Schimper in B.S.G., 1844.

P. alpiniforme (Cardot) G. L. Smith, Mem. New York Bot. Gard. 21(3): 37. 1971.
Basionym: *Polytrichum alpiniforme* Cardot, 1910.

P. alpinum (Hedwig) G. L. Smith, Mem. New York Bot. Gard. 21(3): 37. 1971.
Basionym: *Polytrichum alpinum* Hedwig, 1801.

P. alpinum var. *brevifolium* (R. Brown) Brassard, Bryologist 75: 531. 1972 [1973].
Basionym: *Polytrichum brevifolium* R. Brown, 1824.

P. alpinum var. *fragile* (Bryhn) D. G. Long, Meddel. Grønland, Biosci. 17: 30. 1985.
Basionym: *Polytrichum fragile* Bryhn, 1906.

P. alpinum var. *septentrionale* (Bridel) G. L. Smith, Mem. New York Bot. Gard. 21(3): 37. 1971.
Basionym: *Polytrichum septentrionale* Bridel, 1801.

P. emodi G. L. Smith, J. Hattori Bot. Lab. 38: 633. f. 1-11. 1974.
Type: Nepal. Between Lama Chungbu and Slesa, *Iwatsuki 1602*. Holotype: NY; isotype: NICH.

P. formosum (Hedwig) G. L. Smith, Mem. New York Bot. Gard. 21(3): 37. 1971.
Basionym: *Polytrichum formosum* Hedwig, 1801.

P. formosum var. *densifolium* (Wilson ex Mitten) Iwatsuki & Noguchi, J. Hattori Bot. Lab. 37: 389. 1973.
Basionym: *Polytrichum densifolium* Wilson ex Mitten, 1859.

P. formosum var. *intersedens* (Cardot) Iwatsuki & Noguchi, J. Hattori Bot. Lab. 37: 389. 1973.
Basionym: *Polytrichum intersedens* Cardot, 1909.

Polytrichastrum, continued.

P. fragile (Bryhn) Schljakov, Novosti Sist. Niz. Rast. 19: 209. 1982.
Basionym: *Polytrichum fragile* Bryhn, 1906.

P. longisetum (Swartz ex Bridel) G. L. Smith, Mem. New York Bot. Gard. 21(3): 35. 1971.
Basionym: *Polytrichum longisetum* Swartz ex Bridel, 1801 [Apr].

P. longisetum fo. *anomalum* (Milde) Schljakov, Novosti Sist. Niz. Rast. 19: 209. 1982.
Basionym: *Atrichum anomalum* Milde, 1869.

P. lyallii (Mitten) G. L. Smith, Mem. New York Bot. Gard. 21(3): 40. 1971.
Basionym: *Polytrichadelphus lyallii* Mitten, 1864.

P. norwegicum (Hedwig) Schljakov, Novosti Sist. Niz. Rast. 19: 210. 1982, "*norvegicum*."
Basionym: *Polytrichum norwegicum* Hedwig, 1801.

P. ohioense (Renauld & Cardot) G. L. Smith, Mem. New York Bot. Gard. 21(3): 35. 1971.
Basionym: *Polytrichum ohioense* Renauld & Cardot, 1885.

P. pallidisetum (Funck) G. L. Smith, Mem. New York Bot. Gard. 21(3): 35. 1971.
Basionym: *Polytrichum pallidisetum* Funck, 1802.

P. papillatum G. L. Smith, J. Hattori Bot. Lab. 38: 633. f. 12-24. 1974.
Type: India? Kashmir, *Duthie s.n.* Holotype: NY. Other indicated distribution: Nepal.

P. sexangulare (Flörke ex Bridel) G. L. Smith, Mem. New York Bot. Gard. 21(3): 37. 1971.
Basionym: *Polytrichum sexangulare* Flörke ex Bridel, 1801.

P. tenellum (C. Müller) G. L. Smith, Bryologist 78: 201. 1975.
Basionym: *Polytrichum tenellum* C. Müller, 1897.

P. torquatum Mitten ex Osada & G. L. Smith in G. L. Smith, J. Hattori Bot. Lab. 38: 636. f. 25-36. 1974.
Type: Bhutan. Tongsa, 10,000 feet, *Griffith s.n.* Holotype: NY. Other indicated distribution: Nepal.

P. xanthopilum (Wilson ex Mitten) G. L. Smith, Mem. New York Bot. Gard. 21(3): 35. 1971.
Basionym: *Polytrichum xanthopilum* Wilson ex Mitten, 1859.

Polytrichum Hedwig, 1801.

P. sect. *Sexangularia* Bruch & W. P. Schimper in B.S.G., Bryol. Eur. 4: 261 (fasc. 21-22. Monogr. 7). 1844.
Other use: *Polytrichastrum* sect. *Sexangularia* (Bruch & W. P. Schimper in B.S.G.) G. L. Smith, 1971.

Polytrichum, continued.

**P.* sect. *Sexangularia* Chen Pan-chieh & Wan Thung-ling, Gen. Musc. Sin. 2: 315. 1978.

*illegitimate, later homonym (Article 64.1).

Earlier name: *Polytrichum* sect. *Sexangularia* Bruch & W. P. Schimper in B.S.G., 1844.

Type: *P. sexangulare* Floerke ex Bridel, holotype.

P. sect. *Xanthotrichum* Chen Pan-chieh & Wan Thung-ling, Gen. Musc. Sin. 2: 315. 1978.

Type: *P. xanthopilum* Mitten, holotype.

P. alpiniforme Cardot, Rev. Bryol. 37: 6. 1910.

Other use: *Polytrichastrum alpiniforme* (Cardot) G. L. Smith, 1971.

P. alpinum Hedwig, Sp. Musc. Frond. 92. pl. 19: f. 2: b. 1801.

Other use: *Polytrichastrum alpinum* (Hedwig) G. L. Smith, 1971.

P. alpinum var. *fragariforme* Xu Wen-xuan & Xiong Ruo-li, Acta Bot. Yunnan. 6: 182. f. 8: 1-6. 1984, "*fragariformis*."

Type: China. Xizang: Diuggye Xian, Ya Lha-shan-kou, 4700 m, *Zang 2069*. Holotype: YUKU.

P. alpinum var. *fragile* (Bryhn) Nyholm, Ill. Moss Fl. Fennoscandia. II. Musci 675. 1969.

Basionym: *Polytrichum fragile* Bryhn, 1906.

P. appalachianum L. E. Anderson, Bryologist 90: 1. f. 1-7. 1987.

Type: U.S.A. North Carolina: Stokes Co., Moore's Knob, Sauratown Mts., near Danbury, 2400 feet, *Anderson 24707*. Holotype: DUKE. Other indicated distribution: U.S.A. (Tennessee).

P. australe J. D. Hooker & Wilson, Fl. Nov.-Zel. 2: 95. pl. 87: f. 6. 1854.

Other use: *Notoligotrichum australe* (J. D. Hooker & Wilson) G. L. Smith, 1971.

P. brevifolium R. Brown, Suppl. App. Parry's Voy. 294. 1824.

Other use: *Polytrichastrum alpinum* var. *brevifolium* (R. Brown) Brassard, 1972 [1973].

**P. chingdingense* Chen Pan-chieh ex Wu Pan-cheng, Lou Jian-shing & Wang Mei-zhi, Gloss. Terms Names Bryoph. 97. 1984.

*invalid, no Latin description (Article 36.1).

P. commune Hedwig, 1801.

P. commune var. *diminutum* (I. Hagen) D. G. Long, Meddel. Grønland, Biosci. 17: 40. 1985.

Basionym: *Polytrichum jensenii* var. *diminutum* I. Hagen, 1914.

P. commune var. *swartzii* (C. J. Hartman) Nyholm, Ill. Moss Fl. Fennoscandia. II. Musci 681. 1969.

Basionym: *Polytrichum swartzii* C. J. Hartman, 1849.

P. compressum J. D. Hooker & Wilson, London J. Bot. 3: 539. 1844.

Other use: *Atrichopsis compressa* (J. D. Hooker & Wilson) G. L. Smith, 1969.

Polytrichum, continued.

P. crassilamellatum Xu Wen-xuan & Xiong Ruo-li, Acta Bot. Yunnan. 6: 178. f. 4. 1984.
Type: China. Xizang: Zhongba Xian, Shengli, 5600 m, *Tao 2095*. Holotype: YUKU.

P. crispulum J. D. Hooker & Wilson, Fl. Nov.-Zel. 2: 95. pl. 87: f. 3. 1854.
Other use: *Notoligotrichum crispulum* (J. D. Hooker & Wilson) G. L. Smith, 1971.

P. cylindricum Willdenow ex Weber, Beitr. Naturk. 2: 397. 1810.
Other use: *Atrichum cylindricum* (Willdenow ex Weber) G. L. Smith, 1977.

P. decipiens Limpricht, Laubm. Deutschl. 2: 618. 1893.
Other use: *Polytrichum ohioense* subsp. *decipiens* (Limpricht) Pilous, 1969.

P. densifolium Wilson ex Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 155. 1859.
Other use: *Polytrichastrum formosum* var. *densifolium* (Wilson ex Mitten) Iwatsuki & Noguchi, 1973, *Polytrichum formosum* var. *densifolium* (Wilson ex Mitten) Osada & K. Yano, 1966.

P. falcifolium Griffith, Calcutta J. Nat. Hist. 2: 475. 1842.
Other use: *Oligotrichum falcifolium* (Griffith) G. L. Smith, 1969, *Oligotrichum semilamellatum* var. *falcifolium* (Griffith) Gangulee, 1969.

P. formosum Hedwig, Sp. Musc. Frond. 92. pl. 19: f. 1a. 1801.
Other use: *Polytrichastrum formosum* (Hedwig) G. L. Smith, 1971.

P. formosum var. *densifolium* (Wilson ex Mitten) Osada & K. Yano, J. Jap. Bot. 10: 80. 1966.
Basionym: *Polytrichum densifolium* Wilson ex Mitten, 1859.

P. formosum var. *intersedens* (Cardot) Osada & K. Yano, J. Jap. Bot. 41: 81. 1966.
Basionym: *Polytrichum intersedens* Cardot, 1909.

P. fragile Bryhn, Rep. Second Norweg. Arctic Exped. "Fram" 1898-1902, Mosses 2(11): 122. pl. 1: f. 3. 1906.
Other use: *Pogonatum alpinum* var. *fragile* (Bryhn) H. Crum, 1971, *Polytrichastrum alpinum* var. *fragile* (Bryhn) D. G. Long, 1985, *Polytrichastrum fragile* (Bryhn) Schljakov, 1982, *Polytrichum alpinum* var. *fragile* (Bryhn) Nyholm, 1969.

P. gracile Dickson in Menzies, 1802.

P. gracile fo. *anomalum* (Milde) Osada, J. Hattori Bot. Lab. 29: 28. 1966.
Basionym: *Atrichum anomalum* Milde, 1869.

P. intersedens Cardot, Bull. Soc. Bot. Genève, ser. 2, 1: 130. 1909.
Other use: *Polytrichastrum formosum* var. *intersedens* (Cardot) Iwatsuki & Noguchi, 1973, *Polytrichum formosum* var. *intersedens* (Cardot) Osada & K. Yano, 1966.

P. jensenii I. Hagen, 1898.

P. jensenii var. *diminutum* I. Hagen, Kongel. Norske Vidensk. Selsk. Skr. (Trondheim) 1913(1): 56. 1914.
Other use: *Polytrichum commune* var. *diminutum* (I. Hagen) D. G. Long, 1985.

Polytrichum, continued.

P. juniperinum Hedwig, 1801.

P. juniperinum var. *piliferoides* Xu Wen-xuan & Xiong Ruo-li, Acta Bot. Yunnan. 6: 183. f. 8: 7-14. 1984.
Type: China. Xizang: Lharis Xian, 4300 m, *Zang 2135*. Holotype: YUKU.

P. longifolium Bruch & W. P. Schimper in B.S.G., Bryol. Eur. 4: 256 (fasc. 21-22. Monogr. 2). 1844.
Other use: *Dawsonia longifolia* (Bruch & W. P. Schimper in B.S.G.) Zanten, 1977.

P. longisetum Swartz ex Bridel, J. Bot. (Schrader) 1800(1): 286. 1801 [Apr].
Other use: *Polytrichastrum longisetum* (Swartz ex Bridel) G. L. Smith, 1971.

P. longisetum var. *anomalum* (Milde) G. L. Smith, Phytologia 18: 403. 1969.
Basionym: *Atrichum anomalum* Milde, 1869.

**P. longisetum* fo. *aquatica* (Bryhn) Nyholm, Ill. Moss Fl. Fennoscandia. II. Musci 677. 1969.
*invalid, basionym not cited (Article 33.2).

P. longisetum fo. *brevifolium* Pilous, Preslia 41: 131. f. 5: 1. 1969.
Type: Czechoslovakia. Rudohori, Cinovec, *Pilous s.n.* Holotype: herb. Pilous.

P. longisetum var. *saxatile* Pilous, Preslia 41: 133. f. 5: 2. 1969.
Type: Czechoslovakia. Slany, vallis Prac, prope Vrany, *Pilous s.n.* Holotype: herb. Pilous.

P. lyallii (Mitten) Kindberg, Rev. Bryol. 21: 38. 1894.
Basionym: *Polytrichadelphus lyallii* Mitten, 1864.
Note: not in Index Muscorum.

P. macounii Kindberg, Bull. Torrey Bot. Club 16: 96. 1889.
Other use: *Pogonatum alpinum* subsp. *macounii* (Kindberg) Persson in Persson & Viereck, 1983.

P. manchuricum (Horikawa) Gao Chien & Chang Kung-chu, J. Hattori Bot. Lab. 54: 201. 1983.
Basionym: *Pogonatum manchuricum* Horikawa, 1936.

P. neesii C. Müller, Syn. Musc. Frond. 2: 563. 1851.
Other use: *Pogonatum aloides* fo. *neesii* (C. Müller) Gangulee, 1969.

P. norwegicum Hedwig, Sp. Musc. Frond. 99. pl. 22: f. 1-5. 1801.
Other use: *Polytrichastrum norwegicum* (Hedwig) Schljakov, 1982.

P. ohioense Renauld & Cardot, Rev. Bryol. 12: 11. 1885.
Other use: *Polytrichastrum ohioense* (Renauld & Cardot) G. L. Smith, 1971.

P. ohioense subsp. *decipiens* (Limpricht) Pilous, Preslia 41: 136. 1969.
Basionym: *Polytrichum decipiens* Limpricht, 1893.

P. ohioense fo. *macrocapsula* Pilous, Preslia 41: 137. 1969.
Type: Czechoslovakia. Krkovose, *Pilous s.n.* Holotype: herb. Pilous.

P. oligodus Kunze ex C. Müller, Syn. Musc. Frond. 1: 206. 1848 [May].
Other use: *Pogonatum perichaetiale* subsp. *oligodus* (Kunze ex C. Müller) Hyvoenen, 1989.

P. pallidisetum Funck, Krypt. Gew. Fichtelgeb. 3: 55. 1802.
Other use: *Polytrichastrum pallidisetum* (Funck) G. L. Smith, 1971.

Polytrichum, continued.

P. piliferum Hedwig, 1801.

P. piliferum fo. *fastigiatum* (Lindberg) Margadant, Lindbergia 1: 129. 1972.
Basionym: *Polytrichum pilosum* var. *fastigiatum* Lindberg, 1879.

P. piliferum fo. *tectorum* (Warnstorf) Margadant, Lindbergia 1: 129. 1972.
Basionym: *Polytrichum piliferum* var. *tectorum* Warnstorf, 1915.

P. piliferum var. *tectorum* Warnstorf, Hedwigia 57: 131. 1915.
Other use: *Polytrichum piliferum* fo. *tectorum* (Warnstorf) Margadant, 1972.

**P. pilosum* Necker ex Lindberg, 1872.
*illegitimate, type of earlier name included (Article 63.1).

P. pilosum var. *fastigiatum* Lindberg, Musci Scand. 12. 1879.
Other use: *Polytrichum piliferum* fo. *fastigiatum* (Lindberg) Margadant, 1972.

P. rubescens Mitten, J. Linn. Soc., Bot. 12: 622. 1869.
Other use: *Polytrichadelphus rubescens* (Mitten) G. L. Smith, 1969.

P. septentrionale Bridel, J. Bot. (Schrader) 1800(1): 285. 1801.
Other use: *Polytrichastrum alpinum* var. *septentrionale* (Bridel) G. L. Smith, 1971.

P. sexangulare Flörke ex Bridel, J. Bot. (Schrader) 1800(1): 285. 1801.
Other use: *Polytrichastrum sexangulare* (Flörke ex Bridel) G. L. Smith, 1971.

P. squamosum J. D. Hooker & Wilson, London J. Bot. 3: 539. 1844.
Other use: *Dendroligotrichum squamosum* (J. D. Hooker & Wilson) Cardot, 1908.

P. x *stefureacii* Plamada, Rev. Roumaine Biol., Sér. Biol. Vég., Ser. Bot., 18: 132. pl. 1-2. 1973.
Type: Romania. Judele Valley, Retezat Mountains, *Plamada s.n.* Holotype: CL. Paratypes cited.

P. subrubescens Thériot, Rev. Bryol. Lichénol. 9: 6. f. 1. 1936.
Other use: *Polytrichadelphus subrubescens* (Thériot) G. L. Smith, 1969.

P. swartzii C. J. Hartman, Handb. Skand. Fl. (ed. 5) 5: 361. 1849.
Other use: *Polytrichum commune* var. *swartzii* (C. J. Hartman) Nyholm, 1969.

P. tenellum C. Müller, Nuovo Giorn. Bot. Ital., n.s., 4: 17. 1897.
Other use: *Polytrichastrum tenellum* (C. Müller) G. L. Smith, 1975.

P. thomsonii Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 155. 1859, "*thomsoni*."
Other use: *Pogonatum perichaetiale* subsp. *thomsonii* (Mitten) Hyvoenen, 1989.

P. tibetanum Gao Chien in Gao Chien & Chang Kung-chu, Acta Phytotax. Sin. 17: 117. f. 2: 1-11. 1979.
Type: China. Xizang: Cona Xian, 4500 m, *Ecol. Off. Tibet Sect. M.7441.* Holotype: IFP.

P. trichodon J. D. Hooker & Wilson in Wilson, London J. Bot. 6: 289. pl. 10. 1847.
Other use: *Notoligotrichum trichodon* (J. D. Hooker & Wilson in Wilson) G. L. Smith, 1971.

P. xanthopilum Wilson ex Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 156. 1859.
Other use: *Polytrichastrum xanthopilum* (Wilson ex Mitten) G. L. Smith, 1971.

Porothamnium Fleischer, 1908.
P. natalense (C. Müller) Fleischer, 1908.
P. natalense subsp. *borbonicum* (Kindberg) Wijk & Margadant, Taxon 14: 197. 1965.
Basionym: *Thamnium natalense* subsp. *borbonicum* Kindberg, 1902.
P. parvirete Brotherus, Bryologist 20: 47. 1917.
Note: the citation in Index Muscorum, "Nat. Pfl. ed. 2 11: 199. 1925," is incorrect.
P. stipitatum (Mitten) Touw ex Sloover, Bull. Jard. Bot. Natl. Belgique 53: 134. 1983.
Basionym: *Trachyloma stipitatum* Mitten, 1864.
P. undulatifolium Tixier, Rev. Bryol. Lichénol. 34: 149. f. 14. 1966.
Type: Vietnam. Chapa, 1500 m, *Petelot 16*. Herbarium not specified by author.
P. variifolioides Sloover, Bull. Jard. Bot. Natl. Belgique 53: 132. f. 236-262, 294. 1983.
Type: Rwanda. Gahinga, foret de Rugege, riviere Buruli pres d'Uwinka, 2250 m, *Sloover 18848*. Holotype: BR; isotype: NAM.
P. viguieri Thériot, 1927.
P. viguieri var. *pallidum* (Lorentz) Wijk & Margadant, Taxon 10: 26. 1961.
Basionym: *Hypnum valdiviae* var. *pallidum* Lorentz, 1866.
Note: not in Index Muscorum.
P. woodii Sim, Trans. Roy. Soc. South Africa 15: 404. illustration. 1926.
Other use: *Stereophyllum woodii* (Sim) Magill in Magill & Schelpe, 1979.

Porotrichodendron Fleischer, 1908.
P. longipes (R. S. Williams) Buck, Brittonia 33: 559. 1981.
Basionym: *Eriodon longipes* R. S. Williams, 1927.

Porotrichum (Bridel) Hampe, 1863.
P. alopecuroides (Hooker) Bescherelle, 1887.
P. alopecuroides var. *donghamense* Bescherelle, Bull. Soc. Bot. France 34: 97. 1887.
Other use: *Pinnatella alopecuroides* var. *donghamensis* (Bescherelle) Brotherus, 1906.
P. aneitense Mitten in Seemann, Fl. Vit. 397. 1873.
Other use: *Thamnobryum aneitense* (Mitten in Seemann) Schultze-Motel, 1973.
P. bonianum Bescherelle, Bull. Soc. Bot. France 34: 97. 1887.
Other use: *Neckeropsis boniana* (Bescherelle) Touw & Ochyra, 1987.
P. cavifolium Brotherus, Bryologist 20: 47. 1917.
Note: cited as invalid, no description (Article 41.3), from "Nat. Pfl. ed. 2, 11: 198. 1925," in Index Muscorum.
P. confertum Mitten, Rep. Challenger, Bot. 1(4): 81. 1885.
Other use: *Thamnobryum confertum* (Mitten) H. Robinson, 1974.

Porotrichum, continued.
P. ellipticum Bosch & Sande Lacoste, Bryol. Jav. 2: 70. pl. 190. 1863.
Other use: *Thamnobryum ellipticum* (Bosch & Sande Lacoste) Noguchi & Iwatsuki, 1972.
P. leavenworthii E. B. Bartram, Amer. Midl. Naturalist 36: 157. 1946.
Note: not in Index Muscorum.
P. obtusatum Lindberg & H. Arnell, Kongl. Svenska Vetensk. Acad. Handl. 23(10): 158. 1890.
Other use: *Thamnobryum obtusatum* (Lindberg & H. Arnell) Bardunov & Czerdantseva, 1982.
**P. petelotii* Tixier, Rev. Bryol. Lichénol. 34: 149. f. 13. 1966.
*invalid, single element not cited as holotype (Article 37.3).
Type: No locality inidicated, *Petelot 72*, *Petelot 94*.
P. rigidum Mitten, J. Linn. Soc., Bot. 12: 467. 1869.
Other use: *Thamnobryum rigidum* (Mitten) H. Robinson, 1974.
P. tripinnatum Dixon, Hong Kong Naturalist, Suppl. 2: 20. pl. 2: f. 11. 1933.
Other use: *Forsstroemia tripinnata* (Dixon) Noguchi, 1980.
P. vancouveriense (Kindberg) H. Crum, Bryologist 90: 41. 1987.
Basionym: *Thuidium vancouveriense* Kindberg, 1890.
Note: valid, error of bibliographic citation of basionym (Article 33.2), "*Thamnium vancouveriense* Kindb."

Potamium Mitten, 1869.
P. longidens Ångström, Öfvers. Förh. Kongl. Svenska Vetensk.-Akad. 33(4): 41. 1876.
Other use: *Donnellia longidens* (Ångström) Buck, 1988, *Meiotheciopsis longidens* (Ångström) Buck, 1982.

Pottia (Reichenbach) Fürnrohr, 1829.
P. austrogeorgica Cardot, Bull. Herb. Boissier, sér. 2, 6: 5. 1906.
Other use: *Desmatodon austrogeorgicus* (Cardot) Ochyra in Ochyra, Vitt & D. G. Horton, 1986.
P. charcotii Cardot, Compt. Rend. Hebd. Séances Acad. Sci. 153: 602. 1911.
Other use: *Pottia heimii* var. *charcotii* (Cardot) Savicz-Ljubitskaya & Smirnova, 1965.
P. conica (Schleicher ex Schwägrichen) Nyholm, Ill. Fl. Nord. Mosses 2: 82. 1989.
Basionym: *Gymnostomum conicum* Schleicher ex Schwägrichen, 1811.
Note: invalid, cited as synonym (Article 34.1), in Fürnrohr in Paris, Index Bryol. 1021. 1898.
P. davalliana (Smith in Drake) C. E. O. Jensen, 1923.
**P. davalliana* fo. *conica* (Schleicher) Pilous, Preslia 10: 130. 1969.
*invalid, basionym not cited (Article 33.2).

Pottia, continued.

**P. denticulata* Dixon & Potier de la Varde, Arch. Bot. Bull. Mens. 1(3): 168. pl. 4: 7. 1927.

*illegitimate, later homonym (Article 64.1).

Earlier name: *Pottia denticulata* C. Müller, 1897.

Correct name: *Pottia watsonii* R. S. Chopra, 1975.

P. globosa Catcheside, Mosses S. Australia 12. f. 50. 1980.

Type: Australia. South Australia: Parachilna Gorge, Flinders Ranges, *Catcheside*, 1978. Holotype: herb. Catcheside.

P. heimii (Hedwig) Hampe, 1837.

P. heimii var. *arctica* Lindberg, Öfvers. Förh. Kongl. Svenska Vetensk.-Akad. 23: 551. 1866 [1867].

Other use: *Desmatodon heimii* var. *arcticus* (Lindberg) H. Crum, 1969.

P. heimii var. *brevinervis* Savicz-Ljubitskaya, Bot. Mater. Otd. Sporov. Rast. Bot. Inst. Komarova Akad Nauk SSSR 16: 193. 1963.

Type: Antarctica. Banger Hills, 36 m, *Vinogradov 12/641*. Holotype: LE. Paratypes cited.

P. heimii var. *charcotii* (Cardot) Savicz-Ljubitskaya & Smirnova, Novosti Sist. Niz. Rast. 1965: 258. 1965.

Basionym: *Pottia charcotii* Cardot, 1911.

P. latzii Catcheside, Mosses S. Australia 126. f. 52. 1980.

Type: Australia. Northern Territory: Mount Giles, *Latz 6604d*. Herbarium not specified by author.

P. minor (C. Müller) Wijk & Margadant, Taxon 14: 197. 1965.

Basionym: *Beccaria minor* C. Müller, 1872.

P. minor var. *elatior* (C. Müller) Wijk & Margadant, Taxon 14: 197. 1965.

Basionym: *Beccaria elatior* C. Müller, 1872.

P. namaquensis Magill, Fl. S. Africa, Bryophyta, Mosses 1: 206. f. 58: 1-11. 1981 [1982].

Type: South Africa. Cape: Namaqualand, Messelpad Road between Taaiboskraal and Nuweputs, *Oliver 7208*. Holotype: PRE; isotype: MO.

P. starckeana (Hedwig) C. Müller, 1849.

P. starckeana subsp. *conica* (Schleicher ex Schwägrichen) D. F. Chamberlain, Notes Roy. Bot. Gard. Edinburgh 29: 403. 1969.

Basionym: *Gymnostomum conicum* Schleicher ex Schwägrichen, 1811.

P. starckeana subsp. *minutula* (Schwägrichen) D. F. Chamberlain, Notes Roy. Bot. Gard. Edinburgh 29: 403. 1969.

Basionym: *Gymnostomum minutulum* Schwägrichen, 1811.

P. truncata (Hedwig) Bruch & W. P. Schimper, 1843.

P. truncata fo. *spathulata* (Warnstorf) Savicz-Ljubitskaya, Novosti Sist. Niz. Rast. 6: 248. 1970.

Basionym: *Pottia truncatula* var. *spathulata* Warnstorf, 1913.

**P. truncatula* (Withering) Buse, 1858.

*illegitimate, type of earlier name included (Article 63.1).

Pottia, continued.
P. truncatula var. *spathulata* Warnstorf, Hedwigia 53: 283. 1913.
Other use: *Pottia truncata* fo. *spathulata* (Warnstorf) Savicz-Ljubitskaya, 1970.
P. watsonii R. S. Chopra, Taxon. Indian Mosses 155. 1975.
Replaced name: *Pottia denticulata* Dixon & Potier de la Varde, 1927.
Blocking name: *Pottia denticulata* C. Müller, 1897.
P. willisiana Sainsbury, Rev. Bryol. Lichénol. 25: 238. 1956.
Other use: *Weissia willisiana* (Sainsbury) Catcheside, 1980.

Powellia Mitten, 1868 [1869].
P. breviseta (E. B. Bartram) Zanten, Jaarb. Kon. Ned. Bot. Ver. 1969: 56. 1969.
Basionym: *Racopilum brevisetum* E. B. Bartram, 1948.
P. parvula (E. B. Bartram) T. Koponen & Norris, Acta Bot. Fenn. 133: 21. 1986.
Basionym: *Hymenodon parvulus* E. B. Bartram, 1953.
P. subelimbata Zanten, Nova Guinea, Bot. 10(16): 297. pl. 25: f. 3. 1964.
Type: Indonesia [New Guinea]. Irian Barat: Camp 36, 1200 m, *Zanten 526*.
Holotype: L; isotype: GRO.

Prionodon C. Müller, 1844.
P. balboi Tosco & Piovano, Allionia 4: 121. f. 7. 1956.
Note: not in Index Muscorum.
**P. tunguraguanus* Griffin, Resumenes, I Congr. Latinoamer. 57. 1972, "*Prinodon*."
*invalid, no Latin description (Article 36.1).

Pseudaloina Delgadillo M., Bryologist 85: 401. 1982 [1983].
Type: *P. woodii* Delgadillo M., holotype.
Original placement: Pottiaceae.
P. woodii Delgadillo M., Bryologist 85: 401. f. 1-6. 1982 [1983].
Type: Yemen Arab Republic. Jebel Sumarra, 2900 m, *Wood 1623*. Holotype: MEXU; isotype: E.

Pseudatrichum Reimers, 1941.
P. nudiusculum (Mitten) G. L. S. Merrill, Mem. New York Bot. Gard. 45: 466. 1987.
Basionym: *Pogonatum nudiusculum* Mitten, 1859.

Pseudephemerum (Lindberg) I. Hagen, 1910.
P. nitidum (Hedwig) Reimers, 1933.
P. nitidum fo. *elatum* (Bruch & W. P. Schimper in B.S.G.) Margadant, Lindbergia 1: 129. 1972.
Basionym: *Pleuridium nitidum* var. *elatum* Bruch & W. P. Schimper in B.S.G., 1850.

Pseudobarbella Noguchi, 1947.
P. ancistrodes (Renauld & Cardot) Manuel, Bryologist 80: 596. 1977 [1978].
Basionym: *Meteorium ancistrodes* Renauld & Cardot, 1895 [1896].
P. angustifolia Noguchi, J. Hattori Bot. Lab. 3: 87. 37 f. 1-3. 1948.
Other use: *Barbella linearifolia* Lin Shan-Hsiung, 1988.
P. attenuata (Thwaites & Mitten) Noguchi, Bull. Natl. Sci. Mus. 16: 312. 1973.
Basionym: *Meteorium attenuatum* Thwaites & Mitten, 1873.
P. brevicuspis (Brotherus) Noguchi, J. Hattori Bot. Lab. 31: 314. 1968, "*brevicuspes*."
Basionym: *Aerobryopsis brevicuspis* Brotherus, 1929.
P. compressiramea (Renauld & Cardot) Noguchi, Fl. E. Himalaya 1: 574. 1966.
Basionym: *Meteorium compressirameum* Renauld & Cardot, 1900.
P. javanica (Bosch & Sande Lacoste) Noguchi in Iwatsuki & Noguchi, J. Hattori Bot. Lab. 36: 466. 1972.
Basionym: *Meteorium javanicum* Bosch & Sande Lacoste, 1863.
P. laosiensis (Brotherus & Paris) Noguchi, J. Hattori Bot. Lab. 41: 346. 1976.
Basionym: *Aerobryopsis laosiensis* Brotherus & Paris, 1908.
P. niitakayamensis Noguchi, J. Hattori Bot. Lab. 3: 90. 38 f. 5-7. 1948.
Other use: *Barbella niitakayamensis* (Noguchi) Lin Shan-Hsiung, 1988.
P. tukusiensis Noguchi, J. Hattori Bot. Lab. 3: 88. f. 37: 4-6. 1948.
Other use: *Chrysocladium flammeum* subsp. *tukusiense* (Noguchi) Noguchi, 1976.
P. validiramosa Wu Pan-cheng & Lou Jian-shing in Lou Jian-shing, Acta Phytotax. Sin. 21: 227. f. 1: 1-6. 1983.
Type: China. Xizang: Medog, 800 m, *Lang 547a*. Holotype: PE.

Pseudobryum (Kindberg) T. Koponen, Ann. Bot. Fenn. 5: 147. 1968.
Basionym: *Mnium* subgen. *Pseudobryum* Kindberg, 1897 [1898].
P. cinclidioides (Hübener) T. Koponen, Ann. Bot. Fenn. 5: 17. 1968.
Basionym: *Mnium cinclidioides* Hübener, 1833.
P. speciosum (Mitten) T. Koponen, Ann. Bot. Fenn. 5: 147. 1968.
Basionym: *Mnium speciosum* Mitten, 1891.

Pseudocrossidium R. S. Williams, 1915.
P. aureum (E. B. Bartram) Zander, Phytologia 44: 207. 1979.
Basionym: *Tortula aurea* E. B. Bartram, 1924.
P. elatum (R. S. Williams) Delgadillo M., Bryologist 78: 278. 1975.
Basionym: *Crossidium elatum* R. S. Williams, 1927.
P. hornschuchianum (Schultz) Zander, Phytologia 44: 205. 1979.
Basionym: *Barbula hornschuchiana* Schultz, 1824 [1822].
P. obtusulum (Lindberg) H. Crum & L. E. Anderson, Bryologist 92: 533. 1989.
Basionym: *Barbula obtusula* Lindberg, 1879.
P. replicatum (Taylor) Zander, Phytologia 44: 206. 1979.
Basionym: *Barbula replicata* Taylor, 1846.

Pseudocrossidium, continued.
P. replicatum var. *longicsupidatum* Zander, Willdenowia 16: 258. f. 16-20. 1986.
Type: Peru. Ancash: Chavin de Huantar, 3150 m, *Menzel P-12*. Holotype: BUF; isotypes: B, herb. Menzel. Paratypes cited.
P. revolutum (Bridel in Schrader) Zander, Phytologia 44: 204. 1979.
Basionym: *Barbula revoluta* Bridel in Schrader, 1801.
P. revolutum var. *obtusulum* (Lindberg) B. C. Tan, Zander & J. Taylor, Lindbergia 7: 41. 1981.
Basionym: *Barbula obtusula* Lindberg, 1879.

Pseudocryphaea Britton ex Brotherus, 1925.
P. domingensis (Sprengel) Buck, Bryologist 83: 455. 1980 [1981].
Basionym: *Neckera domingensis* Sprengel, 1827.

Pseudodistichium Cardot, 1905.
P. austrogeorgicum Cardot, Rev. Bryol. 32: 45. 1905.
Other use: *Ditrichum austrogeorgicum* (Cardot) Seppelt, 1980.
P. austrogeorgicum var. *longifolium* Brotherus, Kongl. Svenska Vetensk. Acad. Handl. 63(10): 18. 1923.
Other use: *Ditrichum austrogeorgicum* var. *longifolium* (Brotherus) Seppelt, 1980.

Pseudoditrichum Steere & Iwatsuki, Canad. J. Bot. 52: 701. 1974.
Type: *P. mirabile* Steere & Iwatsuki, holotype.
Original placement: Pseudoditrichaceae.
P. mirabile Steere & Iwatsuki, Canad. J. Bot. 52: 701. f. 1-46. 1974.
Type: Canada. Northwest Territories: McTavish Arm, Great Bear Lake, *Steere 10589*. Holotype: NY; isotypes: ALTA, CANM, CP, DUKE, FH, LE, MICH, MO, NA, NICH, S-PA.

Pseudohygrohypnum Kanda, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 16: 106. 1976 [1977].
Type: *Limnobium eugyrium* W. P. Schimper in B.S.G., *P. eugyrium* (W. P. Schimper in B.S.G.) Kanda, holotype.
Original placement: Amblystegiaceae.

P. eugyrium (W. P. Schimper in B.S.G.) Kanda, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 16: 106. 1976 [1977].
Basionym: *Limnobium eugyrium* W. P. Schimper in B.S.G., 1855.
P. purpurascens (Brotherus) Kanda, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 16: 109. 1976 [1977].
Basionym: *Hygrohypnum purpurascens* Brotherus, 1921.

Pseudoleskea Bruch & W. P. Schimper in B.S.G., 1852.
P. arizonae R. S. Williams, Bryologist 33: 20. f. 1-10. 1930.
Other use: *Lescuraea arizonae* (R. S. Williams) P. Wilson & Norris, 1989,

Leskeella arizonae (R. S. Williams) Flowers, 1973.

Pseudoleskea, continued.

P. chilensis (Lorentz) Ochyra, J. Bryol. 14: 459. 1987.
Basionym: *Amblystegium chilense* Lorentz, 1866.

P. filamentosa (Dickson ex Withering) C. E. O. Jensen, 1887.

P. filamentosa var. *tenuiretis* Culmann, Rev. Bryol. 37: 94. 1910.
Other use: *Pseudoleskea incurvata* var. *tenuiretis* (Culmann) H. Crum, Steere & L. E. Anderson, 1964.

P. iliamniana (E. Lawton) H. Crum, Steere & L. E. Anderson, Bryologist 67: 163. 1964.
Basionym: *Lescuraea iliamniana* E. Lawton, 1957.

P. incurvata (Hedwig) Loeske, 1911.

P. incurvata var. *gigantea* (E. Lawton) H. Crum, Steere & L. E. Anderson, Bryologist 67: 163. 1964.
Basionym: *Lescuraea incurvata* var. *gigantea* E. Lawton, 1957.

P. incurvata fo. *glacialis* Tosco, Webbia 28: 287. 1973.
Type: Italy. Gran Paradiso, Parco Nazionale, Alte Valli, "sine coll.," 1971. Holotype: herb. Tosco.
Note: lack of information on the type specimen prevented the author's citing a locality and collector, and this name should be treated as valid and an exception to Article 37.3.

P. incurvata var. *tenuiretis* (Culmann) H. Crum, Steere & L. E. Anderson, Bryologist 67: 164. 1964.
Basionym: *Pseudoleskea filamentosa* var. *tenuiretis* Culmann, 1910.

P. julacea (Bescherelle & Cardot) H. Crum, Steere & L. E. Anderson, Bryologist 76: 103. 1973.
Basionym: *Lescuraea julacea* Bescherelle & Cardot, 1911.

P. korjakorum Lazarenko, Bot. Zhurn. (Kiev) 2: 212. 1945.
Note: not in Index Muscorum.

P. laevifolia (Mitten) Jaeger, 1878.

P. laevifolia var. *vasudharensis* Vohra, Bull. Bot. Surv. India 22: 122. f. 54-57. 1980 [1982].
Type: India. Uttar Pradesh: Himalayas, Chamoli Distt. Vasudhara, 3500 m, *Vohra 29*. Holotype: CAL.

P. larminatii Brotherus & Paris, Rev. Bryol. 31: 57. 1904, "*larminati*."
Other use: *Bryohaplocladium larminatii* (Brotherus & Paris) R. Watanabe & Iwatsuki, 1981.

P. pallida Best, Bull. Torrey Bot. Club 27: 227. pl. 7. 1900.
Other use: *Pseudoleskea radicosa* var. *pallida* (Best) H. Crum, Steere & L. E. Anderson, 1964.

P. praelonga W. P. Schimper ex Bescherelle, Mém. Soc. Sci. Nat. Cherbourg 16: 233. 1872.
Other use: *Bryohaplocladium praelongum* (W. P. Schimper ex Bescherelle) H. Crum, 1984, *Haplocladium praelongum* (W. P. Schimper ex Bescherelle) H. Crum, 1969.

Pseudoleskea, continued.
P. radicosa (Mitten) Macoun & Kindberg, 1892.
P. radicosa var. *pallida* (Best) H. Crum, Steere & L. E. Anderson, Bryologist 67: 164. 1964.
Basionym: *Pseudoleskea pallida* Best, 1900.
P. saxicola (W. P. Schimper in B.S.G.) H. Crum, Steere & L. E. Anderson, Bryologist 67: 164. 1964.
Basionym: *Lescuraea striata* var. *saxicola* W. P. Schimper in B.S.G., 1851.
P. schwetschkeoides Cardot, Bull. Soc. Bot. Genève 3: 284. 1911.
Other use: *Bryohaplocladium schwetschkeoides* (Cardot) R. Watanabe & Iwatsuki, 1981.

Pseudoleskeella Kindberg, 1897.
P. nervosa (Bridel) Nyholm, Ill. Moss Fl. Fennoscandia. II. Musci 776. 1969.
Basionym: *Pterigynandrum nervosum* Bridel, 1806.
Note: invalid, basionym not cited (Article 33.2), in Ill. Moss Fl. Fennoscandia. II. Musci 394. 1960.
P. nervosa var. *sibirica* (Arnold) E. Lawton, Moss Fl. Pacific Northwest 258. 1971.
Basionym: *Leskea nervosa* var. *sibirica* Arnold, 1890.
P. serpentinensis P. Wilson & Norris, Bryologist 92: 391. f. 30-39. 1989, "*serpentinense*."
Type: U.S.A. California: Del Norte Co. Smith River one mile W of Gasquet, ca. 100 m, *Norris 70337*. Holotype: HSC; isotypes: H, NY, UBC, US, UW.
P. sibirica (Arnold) P. Wilson & Norris, Bryologist 92: 390. 1989.
Basionym: *Leskea nervosa* var. *sibirica* Arnold, 1890.
P. tectorum (Funck ex Bridel) Kindberg ex Brotherus, 1907.
P. tectorum subsp. *cyrtophylla* (Kindberg in Macoun) Lewinsky, Lindbergia 3: 89. 1975.
Basionym: *Leskea cyrtophylla* Kindberg in Macoun, 1892.
P. tectorum var. *cyrtophylla* (Kindberg in Macoun) H. Crum, Steere & L. E. Anderson, Bryologist 67: 164. 1964.
Basionym: *Leskea cyrtophylla* Kindberg in Macoun, 1892.
P. tectorum var. *flagellifera* (Best) Amann, Bull. Soc. Vaud. Sci. Nat. 57: 136. 1930.
Basionym: *Leskea tectorum* var. *flagellifera* Best, 1903.
Note: redundant combination in H. Crum, Steere & L. E. Anderson, Bryologist 67: 164. 1964.
P. williamsii (Best) H. Crum, Steere & L. E. Anderson, Bryologist 67: 164. 1964.
Basionym: *Leskea williamsii* Best, 1903.
P. williamsii var. *filamentosa* (Best) H. Crum, Steere & L. E. Anderson, Bryologist 67: 164. 1964.
Basionym: *Leskea williamsii* var. *filamentosa* Best, 1903.

Pseudoleskeopsis Brotherus in Engler & Prantl, 1907.
P. japonica (Sullivant in Perry) Iwatsuki, J. Hattori Bot. Lab. 29: 58. 1966.
Basionym: *Hypnum japonicum* Sullivant in Perry, 1857.

Pseudopiloecium E. B. Bartram, 1943.
P. mamillisetum Zanten, Nova Guinea, Bot. 10(16): 336. pl. 31: f. 2. 1964.
Type: Indonesia [New Guinea]. Irian Barat: Sibil-valley, Basis Camp, 1300 m, *Zanten 862a*. Holotype: L; isotype: GRO.

Pseudopleuropus Takaki, 1955.
P. morrisonensis Takaki, J. Hattori Bot. Lab. 14: 18. f. 5. 1955.
Other use: *Lescuraea morrisonensis* (Takaki) Noguchi & Takaki in Noguchi, 1985.

Pseudopohlia R. S. Williams, 1917.
P. microstoma (Harvey in W. J. Hooker) U. Mizushima, J. Jap. Bot. 46: 166. 1971.
Basionym: *Brachymenium microstomum* Harvey in W. J. Hooker, 1836.

Pseudoracelopus Brotherus, 1910.
P. acaulis (Mitten in Stapf) Iwatsuki, J. Hattori Bot. Lab. 32: 285. 1969.
Basionym: *Racelopus acaulis* Mitten in Stapf, 1894.
P. marginatus (Mitten) G. L. Smith, Phytologia 18: 403. 1969.
Basionym: *Pogonatum marginatum* Mitten, 1859.
P. mindanensis E. B. Bartram, Philipp. J. Sci. 68: 384. f. 496. 1939.
Other use: *Racelopodopsis mindanensis* (E. B. Bartram) G. L. Smith, 1969.
P. misimensis E. B. Bartram, Blumea 10: 150. 1960.
Other use: *Pogonatum misimense* (E. B. Bartram) Touw, 1986.
P. petelotii Thériot & R. Henry, Rev. Bryol., n.s. 1: 46. 1928, "*peteloti*."
Other use: *Pogonatum petelotii* (Thériot & R. Henry) Touw, 1986.
P. philippinensis Brotherus, Oefers. Förh. Finska Vetensk.-Soc. 52A(7): 2. f. 2. 1910.
Other use: *Pogonatum philippinense* (Brotherus) Touw, 1986.
P. ponapensis (Sakurai) G. L. Smith, Phytologia 18: 403. 1969.
Basionym: *Racelopus ponapensis* Sakurai, 1943.
P. rutteri (Thériot & Dixon) A. Eddy, Handb. Malesian Mosses 1: 47. 1988.
Basionym: *Atrichum rutteri* Thériot & Dixon, 1916.

Pseudosymblepharis Brotherus in Engler & Prantl, 1924.
P. papillosula (Cardot & Thériot) Brotherus, 1924.
P. papillosula var. *robusta* Tixier, Rev. Bryol. Lichénol. 34: 134. f. 5. 1966.
Type: Vietnam. Chapa, *Petelot 96*. Herbarium not specified by author.

Pseudotaxiphyllum Iwatsuki, J. Hattori Bot. Lab. 63: 448. 1987.
Type: *Isothecium elegans* Bridel, *P. elegans* (Bridel) Iwatsuki, holotype.
Original placement: Plagiotheciaceae.

Pseudotaxiphyllum, continued.
P. arquifolium (Bosch & Sande Lacoste) Iwatsuki, J. Hattori Bot. Lab. 63: 449. 1987.
Basionym: *Hypnum arquifolium* Bosch & Sande Lacoste, 1867.
P. densum (Cardot) Iwatsuki, J. Hattori Bot. Lab. 63: 449. 1987.
Basionym: *Isopterygium densum* Cardot, 1912.
P. distichaceum (Mitten) Iwatsuki, J. Hattori Bot. Lab. 63: 449. 1987.
Basionym: *Stereodon distichaceus* Mitten, 1859.
P. elegans (Bridel) Iwatsuki, J. Hattori Bot. Lab. 63: 449. 1987.
Basionym: *Hypnum elegans* Bridel, 1801.
P. fauriei (Cardot) Iwatsuki, J. Hattori Bot. Lab. 63: 449. 1987.
Basionym: *Isopterygium fauriei* Cardot, 1912.
P. maebarae (Sakurai) Iwatsuki, J. Hattori Bot. Lab. 63: 449. 1987.
Basionym: *Isopterygium maebarae* Sakurai, 1951.
P. pohliaecarpum (Sullivant & Lesquereux) Iwatsuki, J. Hattori Bot. Lab. 63: 449. 1987.
Basionym: *Hypnum pohliaecarpum* Sullivant & Lesquereux, 1859.

Pseudotimmiella Bizot, Cryptog. Bryol. Lichénol. 1: 425. 1980.
Type: *P. pocsii* Bizot, holotype.
Original placement: not indicated by author.
P. pocsii Bizot, Cryptog. Bryol. Lichénol. 1: 425. pl. 3: f. 5. 1980.
Type: Tanzania: Uluguru Mts. above Morogoro town, W. ridge of Lupanga, 1850 m, *Pócs et al. 6549/H*. Holotype: EGR; isotype: herb. Bizot.

Psilopilum Bridel, 1827.
P. afrolaevigatum Dixon, Trans. Roy. Soc. South Africa 8: 207. pl. 11: f. 10. 1920.
Other use: *Oligotrichum afrolaevigatum* (Dixon) G. L. Smith, 1969.
P. angulatum Cardot & Brotherus, Kongl. Svenska Vetensk. Acad. Handl. 63(10): 70. pl. 3: f. 16. 1923.
Other use: *Notoligotrichum angulatum* (Cardot & Brotherus) G. L. Smith, 1971.
P. bellii Brotherus, Oefers. Förh. Finska Vetensk.-Soc. 40: 179. 1898.
Other use: *Notoligotrichum bellii* (Brotherus) G. L. Smith, 1971.
P. falcatum (Steere) H. Crum, Steere & L. E. Anderson, Bryologist 68: 434. 1965 [1966].
Basionym: *Oligotrichum falcatum* Steere, 1958.
P. laxifolium Dixon in Christophersen, Results Norweg. Sci. Exped. Tristan da Cunha 48: 48. 1960.
Other use: *Notoligotrichum laxifolium* (Dixon in Christophersen) G. L. Smith, 1971.
P. mexicanum G. L. Smith, Phytologia 18: 401. f. a-n. 1969.
Type: Mexico. Inditione Tlaxcala in prato alpino montis La Malinche, *Delgadillo 2583*. Holotype: NY; isotypes: MEXU, MICH, TENN.
Other use: *Notoligotrichum mexicanum* (G. L. Smith) G. L. Smith, 1971.

Psilopilum, continued.
P. minimum (Cardot) G. L. Smith, Bull. Torrey Bot. Club 96: 67. 1969.
Basionym: *Polytrichadelphus minimus* Cardot, 1905.
P. tristaniense Dixon in Christophersen, Results Norweg. Sci. Exped. Tristan da Cunha 48: 48. 1960.
Other use: *Notoligotrichum tristaniense* (Dixon in Christophersen) G. L. Smith, 1971.
Note: not in Index Muscorum.
P. ulei Brotherus ex C. Müller, Bull. Herb. Boissier 6: 26. 1898.
Other use: *Itatiella ulei* (Brotherus ex C. Müller) G. L. Smith, 1971.
P. wageri Brotherus in Dixon, Trans. Roy. Soc. South Africa 8: 207. pl. 12: f. 12. 1920.
Other use: *Oligotrichum wageri* (Brotherus in Dixon) G. L. Smith, 1969.

Pterigynandrum Hedwig, 1801.
P. filiforme Hedwig, 1801.
P. filiforme var. *mexicanum* Thériot, Rev. Bryol., n.s. 1: 9. f. 10. 1928.
Other use: *Horridohypnum mexicanum* (Thériot) Buck, 1980 [1981], *Taxiphyllum mexicanum* (Thériot) H. Robinson, 1974.
P. nervosum Bridel, Muscol. Recent. Suppl. 1: 132. 1806.
Other use: *Pseudoleskeella nervosa* (Bridel) Nyholm, 1969.
P. ramondii Lamarck & A. P. de Candolle, Fl. Franç. 2: 462. 1805.
Other use: *Grimmia ramondii* (Lamarck & A. P. de Candolle) Margadant, 1972.
P. sharpii H. Crum & L. E. Anderson, Bryologist 70: 99. 1967.
Replaced name: *Hylocomium splendens* var. *tenue* A. J. Sharp, 1933.
Blocking name: *Pterigynandrum tenue* (W. J. Hooker) Bridel, 1827.
Other use: *Mittenothamnium sharpii* (H. Crum & L. E. Anderson) Buck, 1980 [1981], *Taxiphyllum sharpii* (H. Crum & L. E. Anderson) H. Robinson, 1974.
P. sinense Potier de la Varde, Rev. Bryol. Lichénol. 10: 142. f. 2. 1938.
Other use: *Forsstroemia leptodontoidea* Buck, 1980 [1981].

Pterobryella (C. Müller) Jaeger, 1877.
P. rigida (Mitten in Seemann) Touw, Blumea 19: 344. 1971.
Basionym: *Hypnodendron rigidum* Mitten in Seemann, 1873.

Pterobryopsis Fleischer, 1905.
P. alaris (E. B. Bartram) Noguchi, J. Hattori Bot. Lab. 61: 257. 1986.
Basionym: *Calyptothecium alare* E. B. Bartram, 1945.
P. auriculata Dixon, J. Bombay Nat. Hist. Soc. 39: 782. pl. 1: f. 10. 1937.
Other use: *Calyptothecium auriculatum* (Dixon) Noguchi, 1980.
P. dentata Thériot, Trav. Bryol. [Rev. Bryol. Lichénol.] 2[14]: 18. f. 10. 1944.
Other use: *Hylocomium dentatum* (Thériot) Steere, 1985.
P. divergens (Mitten) Noguchi, J. Hattori Bot. Lab. 28: 147. 1965.
Basionym: *Meteorium divergens* Mitten, 1859.

Pterobryopsis, continued.

P. dubia Tixier in Pócs & Tixier, Bot. Közelem. 54: 34. pl. 1. 1967.
Type: Vietnam. Ninh-binh, Parc national Cuc-phuong, pres du village de Dong-con, 400-500 m, *Pócs 2624/d*. Herbarium not specified by authors. Paratypes cited.
Other use: *Horikawaea dubia* (Tixier in Pócs & Tixier) Lin Shan-Hsiung, 1984.

P. myurioides Tixier, Rev. Bryol. Lichénol. 37: 732. f. 4. 1970 [1971].
Type: Vietnam. Tuyen Duc, Mont Lang Bian, 1900 m, *Tixier 271*. Herbarium not specified by author.

P. orientalis (C. Müller) Fleischer, 1917.

P. orientalis subsp. *yuennanensis* (Brotherus) Noguchi, J. Hattori Bot. Lab. 60: 150. 1986, "*yunnanensis*."
Basionym: *Pterobryopsis yuennanensis* Brotherus, 1924.

**P. papillosa* Tixier, Rev. Bryol. Lichénol. 37: 734. f. 5. 1970 [1971].
*invalid, single element not cited as holotype (Article 37.3).
Type: no element cited by author.

P. pilifolia (Dixon) Magill, J. Hattori Bot. Lab. 48: 68. 1980.
Basionym: *Symphysodontella pilifolia* Dixon, 1937.

P. rehmannii Magill in Magill & Schelpe, Mem. Bot. Surv. South Africa 43: 5. f. 33-41. 1979.
Type: South Africa. Natal, *Buchanan s.n.* (Musci Austro-afr. 615). Holotype: NH; isotype: BM.

P. rubrinervis Tixier, Rev. Bryol. Lichénol. 38: 152. f. 3. 1971-72 [1972].
Type: Thailand. Nakhon Ratchasima, Khao Khieo, 1300 m, *Tixier*, 1965. Herbarium not specified by author. Other indicated distribution: Cambodia, Vietnam.

P. yuennanensis Brotherus, Akad. Wiss. Wien Sitzungsber., Math.-Naturwiss. Kl., Abt. 1, 133: 573. 1924.
Other use: *Pterobryopsis orientalis* subsp. *yuennanensis* (Brotherus) Noguchi, 1986.

Pterogoniella W. P. Schimper ex Brotherus, 1897.

P. guineensis Brotherus & Paris, Rev. Bryol. 31: 48. 1904.
Other use: *Meiothecium guineense* (Brotherus & Paris) Schultze-Motel, 1975.

P. laxiuscula Cardot, Rev. Bryol. 36: 51. 1909.
Other use: *Donnellia laxiuscula* (Cardot) Buck, 1988, *Meiotheciopsis laxiuscula* (Cardot) Buck, 1982.

P. usambarica Brotherus ex Paris, Index Bryol. 1049. 1898.
Other use: *Donnellia usambarica* (Brotherus ex Paris) Buck, 1988, *Meiotheciopsis usambarica* (Brotherus ex Paris) Buck, 1982.

Pterogonium Swartz, 1801.

P. ambiguum W. J. Hooker, Trans. Linn. Soc. London 9: 310. pl. 26: f. 4. 1808.
Other use: *Bryowijkia ambigua* (W. J. Hooker) Noguchi, 1973.

Pterogonium, continued.

P. flavescens W. J. Hooker, Musci Exot. 2: 155. 1820.
Other use: *Mesonodon flavescens* (W. J. Hooker) Buck, 1980.

P. gracile (Hedwig) Smith, 1803.

P. gracile var. *tsinlingense* Chen Pan-chieh ex Zhang Man-xiang, Acta Phytotax. Sin. 12: 347. pl. 70. 1974.
Type: China. Shanxi: Mei hsien, 710 m, *Wei 4851*. Holotype: WUK.

P. neckeroides Griffith, Calcutta J. Nat. Hist. 3: 64. 1843.
Other use: *Schwetschkeopsis neckeroides* (Griffith) Vohra, 1983.

Pterygoneurum Juratzka, 1882, conserved name.

P. californicum H. Crum, Madroño 19: 92. f. 1-9. 1967.
Type: U.S.A. California: Kern Co., S of Bakersfield, 5 miles W of Hwy. 99, along Panama Lane, *Koch 4026*. Holotype: MICH.

P. kozlovii Lazarenko, Bot. Zhurn. (Kiev) 3: 61. 1946.
Note: invalid, no Latin description (Article 36.1), in Viznacnik Listjanih Mohiv USRR 104. 1936.

P. roseae R. S. Williams, Bull. Torrey Bot. Club 42: 394. pl. 22: f. 1-11. 1915.
Other use: *Aloina roseae* (R. S. Williams) Delgadillo M., 1973.

***Pterygophyllum** Brotherus, Nat. Pflanzenfam. (ed. 2) 11: 341. 1925.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Pterygophyllum* Bridel, 1819 [1818].
Correct name: *Achrophyllum* Vitt & Crosby, 1972.

P. asplenioides Bridel, Muscol. Recent. Suppl. 4: 151. 1819 [1818].
Other use: *Calyptrochaeta asplenioides* (Bridel) Crosby, 1976.

P. crassirete Matteri, Revista Mus. Argent. Ci. Nat. "Bernardino Rivadavia," Ci. Nat., Bot. 4: 250. 1972.
Replaced name: *Hookeria obscura* Montagne, 1845.
Blocking name: *Pterygophyllum obscurum* Mitten, 1859.
Other use: *Achrophyllum crassirete* (Matteri) Matteri, 1979.

P. haesselianum Matteri, Revista Mus. Argent. Ci. Nat. "Bernardino Rivadavia," Ci. Nat., Bot. 4: 247. f. 1. 1972.
Type: Argentina. Tierra del Fuego: Paso Garibaldi, ladera W, 450 m, *Matteri 773*. Holotype: BA. Other indicated distribution: Chile.
Other use: *Achrophyllum haesselianum* (Matteri) Matteri, 1979.

P. javense Dixon ex J. Fröhlich, Ann. Naturhist. Mus. Wien 59: 99. 1953.
Other use: *Achrophyllum javense* (Dixon ex J. Fröhlich) Iwatsuki, B. C. Tan & Touw in Touw, 1978.

P. magellanicum Bescherelle, Miss. Sci. Cape Horn, Bot. 5(Bot.): 297. 1889.
Other use: *Achrophyllum magellanicum* (Bescherelle) Matteri, 1979.

Pterygophyllum, continued.

P. magellanicum var. *oligodontum* Matteri, Revista Mus. Argent. Ci. Nat. "Bernardino Rivadavia," Ci. Nat., Bot. 4: 257. f. 5: 4-6. 1972.
Type: Argentina. Tierra del Fuego: valle del rio Hambre, *Matteri 853*. Holotype: BA. Other indicated distribution: Chile.
Other use: *Achrophyllum magellanicum* var. *oligodontum* (Matteri) Matteri, 1979.

P. tenuinerve Brotherus in Skottsberg, Nat. Hist. Juan Fernández 2(3): 435. pl. 27: f. 5-6. 1924.
Other use: *Achrophyllum tenuinerve* (Brotherus in Skottsberg) H. Robinson, 1974.

Ptychodium W. P. Schimper, 1860.

P. indicum (Dixon) Rohrer, Lindbergia 12: 35. 1986.
Basionym: *Hylocomium indicum* Dixon, 1938.

Ptychomitriopsis Dixon, 1931.

P. africana Dixon, J. Bot. 69: 284. 1931.
Other use: *Ptychomitrium africanum* (Dixon) Churchill in Funk & D. R. Brooks, 1981.

Ptychomitrium Fürnrohr, 1829, conserved name, "*Pthychomitrium*."

P. africanum (Dixon) Churchill in Funk & D. R. Brooks, Advances Cladistics 143. 1981.
Basionym: *Ptychomitriopsis africana* Dixon, 1931.

P. diexaratum Magill in Magill & Schelpe, Mem. Bot. Surv. South Africa 42: 3. f. 20-32. 1979.
Type: Lesotho. Sehlabathebe Natl. Park, 2400 m, *Magill 4308*. Holotype: PRE; isotypes: H, L, MO, NY.

P. longisetum Reimers & Sakurai, 1931.

P. longisetum var. *angustifolium* Noguchi, J. Hattori Bot. Lab. 12: 24. f. 14: 16-17. 1954.
Other use: *Ptychomitrium polyphylloides* var. *angustifolium* (Noguchi) Noguchi & Iwatsuki in Iwatsuki & Noguchi, 1973.

P. polyphylloides (C. Müller) Paris, 1898.

P. polyphylloides var. *angustifolium* (Noguchi) Noguchi & Iwatsuki in Iwatsuki & Noguchi, J. Jap. Bot. 48: 217. 1973.
Basionym: *Ptychomitrium longisetum* var. *angustifolium* Noguchi, 1954.

P. standleyi H. Crum, Bryologist 87: 205. f. 5-10. 1984.
Type: Guatemala. Jalapa: NE of Jalapa, 1400-1600 m, *Standley 76792*. Holotype: MICH; isotype: NY.

P. subcrispatum Thériot & Potier de la Varde, 1918.

P. subcrispatum var. *obscurum* Bizot, Svensk Bot. Tidskr. 63: 450. 1969.
Type: Cape Verde Islands. Santo Antao: Cova, 1200 m, *Byström*. Herbarium not specified by author.

Ptychomnion (W. J. Hooker & Wilson) Mitten, 1869.
P. cygnisetum (C. Müller) Kindberg, 1888.
**P. cygnisetum* fo. *fruticetorum* (C. Müller) Hattaway, Monogr. Ptychomniaceae 94. 1984.
*invalid, not effectively published (Article 29.1).

Ptychophyllum Brotherus, 1928.
P. borneense Brotherus, Mitt. Inst. Allg. Bot. Hamburg 7(2): 139. 1928.
Other use: *Ectropothecium ptychofolium* Nishimura, 1984.

Ptychostomum Hornschuch, 1824.
P. compactum Hornschuch, 1822.
P. compactum var. *spadiceum* Bridel, Bryol. Univ. 1: 837. 1827.
Other use: *Bryum algovicum* var. *spadiceum* (Bridel) Margadant, 1972.

Pulchrinodus B. H. Allen, New Zealand J. Bot. 25: 338. 1987.
Type: *Hypnum inflatum* J. D. Hooker & Wilson, *P. inflatus* (J. D. Hooker & Wilson) B. H. Allen, holotype.
Original placement: Pterobryaceae.
P. inflatus (J. D. Hooker & Wilson) B. H. Allen, New Zealand J. Bot. 25: 339. 1987.
Basionym: *Hypnum inflatum* J. D. Hooker & Wilson, 1854.

Pursellia Lin Shan-Hsiung, J. Hattori Bot. Lab. 55: 299. 1984.
Type: *Neckera phyllogonioides* Sullivant, *P. phyllogonioides* (Sullivant) S.-H. Lin, holotype.
Note: invalid, no Latin description (Article 36.1), in J. Taiwan Mus. 36(2): 37. 1983.
Original placement: Pterobryaceae.
P. phyllogonioides (Sullivant) Lin Shan-Hsiung, J. Hattori Bot. Lab. 55: 299. 1984.
Basionym: *Neckera phyllogonioides* Sullivant, 1854.
Note: invalid, basionym not cited (Article 33.2), in J. Taiwan Mus. 36(2): 37. 1983.

***Pylaisaea** Bruch & W. P. Schimper in B.S.G., 1851.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Pylaisaea* Bachelot de la Pylaie, 1814.
Correct name: *Pylaisiella* Kindberg ex Grout, 1896.
P. aureoides Brotherus & Paris, Rev. Bryol. 34: 98. 1907, "*Pylaisia*."
Other use: *Platygyriella aureoides* (Brotherus & Paris) Buck, 1984.
P. breviseta Toyama, Acta Phytotax. Geobot. 7: 224. 1938, "*Pylaisia*."
Other use: *Pylaisiella subcircinata* fo. *breviseta* (Toyama) Iwatsuki & Noguchi, 1973.
P. brotheri Bescherelle, Ann. Sci. Nat. Bot., ser. 7, 17: 369. 1893, "*Pylaisia*."
Other use: *Pylaisiella brotheri* (Bescherelle) Iwatsuki & Noguchi, 1973.

Pylaisaea, continued.

P. chrysophylla Cardot, Beih. Bot. Centralbl. 19(2): 131. f. 23. 1905.
Other use: *Myurium chrysophyllum* (Cardot) Seki, 1968.

P. coreana Noguchi, J. Hattori Bot. Lab. 12: 32. f. 12. 1954, "*Pylaisia*."
Other use: *Pylaisiella coreana* (Noguchi) Noguchi in Iwatsuki & Noguchi, 1973.

P. cristata Cardot, Bull. Soc. Bot. Genève, ser. 2, 3: 288. 1911, "*Pylaisia*."
Other use: *Pylaisiella cristata* (Cardot) Iwatsuki & Noguchi, 1973.

P. entodontea C. Müller, Nuovo Giorn. Bot. Ital., n.s., 3: 111. 1896, "*Pylaisia*."
Other use: *Hondaella entodontea* (C. Müller) Buck, 1984.

P. falcata W. P. Schimper in B.S.G., Bryol. Eur. fasc. 46-47. Monogr. 3 (5: 89). 1851.
Other use: *Pylaisiella falcata* (W. P. Schimper in B.S.G.) Ando, 1978.

P. guineensis Brotherus & Paris, Rev. Bryol. 31: 88. 1904, "*Pylaisia*."
Other use: *Acanthocladiella guineensis* (Brotherus & Paris) H. Robinson & C. F. Reed, 1966.

P. laetoviridis S. Okamura, J. Coll. Sci. Imp. Univ. Tokyo 38(4): 51. f. 23. 1916, "*Pylaisia*."
Other use: *Pylaisiella laetoviridis* (S. Okamura) Iwatsuki & Noguchi, 1973.

P. obtusa Lindberg, Contr. Fl. Crypt. As. [Acta Soc. Sci. Fenn. 10:] 257. 1872, "*Pylaisia*."
Other use: *Pylaisiella obtusa* (Lindberg) Iwatsuki & Noguchi, 1973.

P. rhaphidostegioides Cardot, Rev. Bryol. 37: 10. 1910, "*Pylaisia*."
Other use: *Pylaisiadelpha tenuirostris* var. *rhaphidostegioides* (Cardot) H. Crum, 1985.

P. robusta Brotherus & Paris in Potier de la Varde, Rev. Gén. Bot. 30: 350. f. 2. 1918.
Other use: *Pylaisiella robusta* (Brotherus & Paris in Potier de la Varde) Gao Chien & Chang Kung-chu, 1983.

P. selwynii Kindberg, Ottawa Naturalist 2: 156. 1889, "*Pylaisia selwyni*."
Other use: *Pylaisiella selwynii* (Kindberg) H. Crum, Steere & L. E. Anderson, 1964.

P. serricuspis Brotherus, Oefers. Förh. Finska Vetensk.-Soc. 62A(9): 38. 1921, "*serricuspes*."
Other use: *Oedicladium serricuspe* (Brotherus) Noguchi & Iwatsuki, 1983, *Pylaisiella serricuspis* (Brotherus) Iwatsuki & Noguchi, 1973.

P. stereodontoides Brotherus & A. Yasuda in Iishiba, Nihon-Senrui Bunrui 92. 1932, "*Pylaisia*."
Other use: *Pylaisiella stereodontoides* (Brotherus & A. Yasuda in Iishiba) Iwatsuki & Noguchi, 1973.

P. subcircinata Cardot, Bull. Soc. Bot. Genève, ser. 2, 3: 287. 1911, "*Pylaisia*."
Other use: *Pylaisiella subcircinata* (Cardot) Iwatsuki & Noguchi, 1973.

P. subdenticulata W. P. Schimper in B.S.G., Bryol. Eur. fasc. 46-47. Monogr. 2 (5: 88). 1851.
Other use: *Pylaisiella polyantha* fo. *subdenticulata* (W. P. Schimper in B.S.G.) H. Crum, 1969.

Pylaisaea, continued.
P. sublaevidens Toyama, Acta Phytotax. Geobot. 7: 230. f. 6. 1938, "*Pylaisia*."
Other use: *Pylaisiella sublaevidens* (Toyama) Iwatsuki & Noguchi, 1973.

Pylaisia W. P. Schimper, 1860.
*invalid, orthographic variant (Article 75.1).
Correct name: **Pylaisaea** Bruch & W. P. Schimper in B.S.G., 1851.

Pylaisiadelpha Cardot, 1912.
P. amblyostega (Mitten) Buck, Yushania 1(2): 11. 1984.
Basionym: *Stereodon amblyostegus* Mitten, 1859.
P. brasiliensis H. Crum, Bryologist 87: 214. f. 45-49. 1984.
Type: Brazil. Sao Paulo: Santo Andre, Alto de Serra Biological Station, 0.5-1 km W of Paranapiacaba, *Eiten & Eiten 5027*. Holotype: MICH; isotype: SP.
P. brotherella Buck, Yushania 1(2): 13. 1984.
Replaced name: *Rhaphidostegium pylaisiadelphus* Bescherelle, 1892.
Note: new name, to avoid tautonym (Article 23.4).
P. celebensis (Dixon) Buck, Yushania 1(2): 11. 1984.
Basionym: *Brotherella celebensis* Dixon, 1934.
P. complanata (Reimers & Sakurai) Buck, Yushania 1(2): 11. 1984.
Basionym: *Brotherella complanata* Reimers & Sakurai, 1931.
P. coreana (Sakurai) Buck, Yushania 1(2): 11. 1984.
Basionym: *Brotherella coreana* Sakurai, 1949.
P. crassipes (Sakurai) Buck, Yushania 1(2): 11. 1984.
Basionym: *Brotherella crassipes* Sakurai, 1949.
P. curvirostris (Schwägrichen) Buck, Yushania 1(2): 11. 1984.
Basionym: *Neckera curvirostris* Schwägrichen, 1828.
P. deplanatula (Cardot) Buck, Yushania 1(2): 11. 1984.
Basionym: *Hypnum deplanatulum* Cardot, 1910.
P. dixonii (Herzog) Buck, Yushania 1(2): 12. 1984.
Basionym: *Brotherella dixonii* Herzog, 1939.
P. duellii H. Crum, Bryologist 88: 27. f. 4-6. 1985.
Type: Mexico. Vor dem Pass zwischen Mexico City u. Toluca, im Bergwald am Borke, 3000-3100 m, *Duell 49b*. Holotype: MICH.
P. erythrocaulis (Mitten) Buck, Yushania 1(2): 12. 1984.
Basionym: *Stereodon erythrocaulis* Mitten, 1859.
P. falcata (Dozy & Molkenboer) Buck, Yushania 1(2): 12. 1984.
Basionym: *Leskea falcata* Dozy & Molkenboer, 1844.
P. falcatula (Brotherus in Handel-Mazzetti) Buck, Yushania 1(2): 12. 1984.
Basionym: *Brotherella falcatula* Brotherus in Handel-Mazzetti, 1929.
P. fauriei (Bescherelle ex Cardot) Buck, Yushania 1(2): 12. 1984.
Basionym: *Acanthocladium fauriei* Bescherelle ex Cardot, 1912.
P. filiformis (Dixon) Buck, Yushania 1(2): 12. 1984.
Basionym: *Brotherella filiformis* Dixon, 1937.
P. formosana (Brotherus) Buck, Yushania 1(2): 12. 1984.
Basionym: *Brotherella formosana* Brotherus, 1921.

Pylaisiadelpha, continued.

P. handelii (Brotherus) Buck, Yushania 1(2): 12. 1984.
Basionym: *Brotherella handelii* Brotherus, 1922.

P. harveyana (Mitten) Buck, Yushania 1(2): 12. 1984.
Basionym: *Stereodon harveyanus* Mitten, 1859.

P. henonii (Duby) Buck, Yushania 1(2): 12. 1984.
Basionym: *Hypnum henonii* Duby, 1877 [Feb].

P. herbacea (Sakurai in Oti) Buck, Yushania 1(2): 12. 1984.
Basionym: *Brotherella herbacea* Sakurai in Oti, 1950.

P. himalayana (Chen Pan-chieh) Lin Shan-Hsiung, Biol. Bull. Dept. Biol. Coll. Sci. Tunghai Univ. 60: 67. 1984.
Basionym: *Brotherella himalayana* Chen Pan-chieh, 1962.

P. indosinensis (Brotherus & Paris in Paris) Buck, Yushania 1(2): 12. 1984.
Basionym: *Rhaphidostegium indosinense* Brotherus & Paris in Paris, 1907.

P. integrifolia (Brotherus) Buck, Yushania 1(2): 12. 1984.
Basionym: *Brotherella integrifolia* Brotherus, 1928.

P. longipes (Brotherus) Buck, Yushania 1(2): 12. 1984.
Basionym: *Brotherella longipes* Brotherus, 1928.

P. lorentziana (Molendo ex Lorentz) Buck, Yushania 1(2): 12. 1984.
Basionym: *Hypnum lorentzianum* Molendo ex Lorentz, 1864.

P. luzonensis (Brotherus) Buck, Yushania 1(2): 12. 1984.
Basionym: *Stereodon luzonensis* Brotherus, 1908.

P. mercieri (Paris) Buck, Yushania 1(2): 12. 1984.
Basionym: *Hypnum mercieri* Paris, 1904.

P. minutula (E. B. Bartram) Buck, Yushania 1(2): 12. 1984.
Basionym: *Brotherella minutula* E. B. Bartram, 1928.

P. nictans (Mitten) Buck, Yushania 1(2): 12. 1984.
Basionym: *Stereodon nictans* Mitten, 1859.

P. opaeodon (Sullivant) Buck, Yushania 1(2): 12. 1984.
Basionym: *Hypnum opaeodon* Sullivant, 1854.

P. pallida (Renauld & Cardot) Buck, Yushania 1(2): 13. 1984.
Basionym: *Acanthocladium pallidum* Renauld & Cardot, 1902-03 [1905].

P. perpinnata (Brotherus) Buck, Yushania 1(2): 13. 1984.
Basionym: *Stereodon perpinnatus* Brotherus, 1908.

P. piliformis (Brotherus) Buck, Yushania 1(2): 13. 1984.
Basionym: *Brotherella piliformis* Brotherus, 1922.

P. propinqua (Harvey in W. J. Hooker) Buck, Yushania 1(2): 13. 1984.
Basionym: *Hypnum propinquum* Harvey in W. J. Hooker, 1837.

P. recurvans (Michaux) Buck, Yushania 1(2): 12. 1984.
Basionym: *Leskea recurvans* Michaux, 1803.

P. roellii (Renauld & Cardot) Buck, Yushania 1(2): 13. 1984.
Basionym: *Rhaphidostegium roellii* Renauld & Cardot, 1890.

P. sharpii H. Crum, Bryologist 89: 27. 1986.
Type: Mexico. Puebla: W of Huachinango on Tulancingo road, 6000 feet, *Sharp 999*. Holotype: MICH.

Pylaisiadelpha, continued.

P. subarcuata (C. Müller) Buck, Yushania 1(2): 13. 1984.
Basionym: *Cupressina subarcuata* C. Müller, 1896.

P. subintegra (Brotherus) Buck, Yushania 1(2): 13. 1984, "*subintergra*."
Basionym: *Brotherella subintegra* Brotherus, 1928.

P. tenuirostris (Bruch & W. P. Schimper in Sullivant in A. Gray) Buck, Yushania 1(2): 13. 1984.
Basionym: *Leskea tenuirostris* Bruch & W. P. Schimper in Sullivant in A. Gray, 1848.

P. tenuirostris var. *rhaphidostegioides* (Cardot) H. Crum, Bryologist 88: 28. 1985.
Basionym: *Pylaisaea rhaphidostegioides* Cardot, 1910.

P. yokohamae (Brotherus) Buck, Yushania 1(2): 13. 1984.
Basionym: *Stereodon yokohamae* Brotherus, 1899.

Pylaisiella Kindberg ex Grout, 1896.

P. brotheri (Bescherelle) Iwatsuki & Noguchi, J. Jap. Bot. 48: 217. 1973.
Basionym: *Pylaisaea brotheri* Bescherelle, 1893.

P. coreana (Noguchi) Noguchi in Iwatsuki & Noguchi, J. Jap. Bot. 48: 217. 1973.
Basionym: *Pylaisaea coreana* Noguchi, 1954.

P. cristata (Cardot) Iwatsuki & Noguchi, J. Jap. Bot. 48: 217. 1973.
Basionym: *Pylaisaea cristata* Cardot, 1911.

P. extenta (Mitten) Ando, J. Hattori Bot. Lab. 46: 384. 1979.
Basionym: *Stereodon extentus* Mitten, 1859.

P. falcata (W. P. Schimper in B.S.G.) Ando, Phyta (Allahabad) 1: 14. 1978.
Basionym: *Pylaisaea falcata* W. P. Schimper in B.S.G., 1851.

P. falcata var. *recurvatula* (Brotherus) Ando, Phyta (Allahabad) 1: 19. 1978.
Basionym: *Stereodon subfalcatus* var. *recurvatulus* Brotherus, 1929.

P. kunisawae Ando, J. Hattori Bot. Lab. 46: 381. f. 2. 1979.
Type: Nepal. Annapurna Himal area, upstream area of Mudkyum Khola, base camp, 4000 m, *Kunisawa*, 1976. Holotype: NICH; isotype: HIRO.

P. laetoviridis (S. Okamura) Iwatsuki & Noguchi, J. Hattori Bot. Lab. 37: 394. 1973.
Basionym: *Pylaisaea laetoviridis* S. Okamura, 1916.

P. obtusa (Lindberg) Iwatsuki & Noguchi, J. Jap. Bot. 48: 217. 1973.
Basionym: *Pylaisaea obtusa* Lindberg, 1872.

P. polyantha (Hedwig) Grout, 1896.

P. polyantha fo. *subdenticulata* (W. P. Schimper in B.S.G.) H. Crum, Bryologist 72: 245. 1969.
Basionym: *Pylaisaea subdenticulata* W. P. Schimper in B.S.G., 1851.

P. robusta (Brotherus & Paris in Potier de la Varde) Gao Chien & Chang Kung-chu, J. Hattori Bot. Lab. 54: 202. 1983.
Basionym: *Pylaisaea robusta* Brotherus & Paris in Potier de la Varde, 1918.

P. selwynii (Kindberg) H. Crum, Steere & L. E. Anderson, Bryologist 67: 164. 1964.
Basionym: *Pylaisaea selwynii* Kindberg, 1889.

Pylaisiella, continued.
P. serricuspis (Brotherus) Iwatsuki & Noguchi, J. Jap. Bot. 48: 217. 1973.
Basionym: *Pylaisaea serricuspis* Brotherus, 1921.
P. steerei Ando & Higuchi, Mem. New York Bot. Gard. 45: 211. f. 1-34. 1987.
Type: U.S.A. Alaska: Mentasta Mountains, Trail Creek, *Lewis 246*. Holotype: F; isotypes: HIRO, NY.
P. stereodontoides (Brotherus & A. Yasuda in Iishiba) Iwatsuki & Noguchi, J. Jap. Bot. 48: 217. 1973.
Basionym: *Pylaisaea stereodontoides* Brotherus & A. Yasuda in Iishiba, 1932.
P. subcircinata (Cardot) Iwatsuki & Noguchi, J. Jap. Bot. 48: 217. 1973.
Basionym: *Pylaisaea subcircinata* Cardot, 1911.
P. subcircinata fo. *breviseta* (Toyama) Iwatsuki & Noguchi, J. Jap. Bot. 48: 217. 1973.
Basionym: *Pylaisaea breviseta* Toyama, 1938.
P. sublaevidens (Toyama) Iwatsuki & Noguchi, J. Jap. Bot. 48: 217. 1973.
Basionym: *Pylaisaea sublaevidens* Toyama, 1938.

Pylaisiobryum Brotherus, 1910.
**P. oddonei* Piovano & Tosco, Allionia 17: 89. pl. 1. 1971.
*invalid, single element not cited as holotype (Article 37.3).
Type: Ethiopia. Cascate del Guder, 2100 m, *Piovano 6, 10, 22, 23, 58, 90b, 121, 125, 126, 128*.

Pylaisiopsis (Brotherus) Brotherus in Engler & Prantl, 1909.
* *P. nipponensis* Seki, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 12: 77. 1968.
*illegitimate, type of earlier name included (Article 63.1).
Earlier name: *Acroporium flagelliferum* Sakurai, 1934.
Replaced name: *Acroporium nipponense* Sakurai, 1951.
Note: new name, based on adoption of earlier epithet (Article 72.Note 1).

Pyrrhobryum Mitten, 1868.
P. sect. *Bifariella* (C. Müller) Manuel, Cryptog. Bryol. Lichénol. 1: 70. 1980.
Basionym: *Mnium* subsect. *Bifariella* C. Müller, 1900.
P. armatum (Sakurai) Manuel, Cryptog. Bryol. Lichénol. 1: 69. 1980.
Basionym: *Rhizogonium armatum* Sakurai, 1941.
P. bifarium (W. J. Hooker) Manuel, Cryptog. Bryol. Lichénol. 1: 70. 1980.
Basionym: *Hypnum bifarium* W. J. Hooker, 1818.
P. brevifolium (Brotherus) Manuel, Cryptog. Bryol. Lichénol. 1: 69. 1980.
Basionym: *Rhizogonium brevifolium* Brotherus, 1890.
P. dozyanum (Sande Lacoste) Manuel, Cryptog. Bryol. Lichénol. 1: 70. 1980.
Basionym: *Rhizogonium dozyanum* Sande Lacoste, 1866.
P. mauritianum (Hampe ex Bescherelle) Manuel, Cryptog. Bryol. Lichénol. 1: 69. 1980.
Basionym: *Rhizogonium mauritianum* Hampe ex Bescherelle, 1880.
P. medium (Bescherelle) Manuel, Cryptog. Bryol. Lichénol. 1: 69. 1980.
Basionym: *Rhizogonium medium* Bescherelle, 1873.

Pyrrhobryum, continued.

P. medium var. *brevisetum* (Thériot) Manuel, Cryptog. Bryol. Lichénol. 1: 69. 1980.
Basionym: *Rhizogonium medium* var. *brevisetum* Thériot, 1921.

P. medium var. *laxifolium* (Thériot in Sarasin & J. Roux) Manuel, Cryptog. Bryol. Lichénol. 1: 69. 1980.
Basionym: *Rhizogonium medium* var. *laxifolium* Thériot in Sarasin & J. Roux, 1914.

P. mnioides (W. J. Hooker) Manuel, Cryptog. Bryol. Lichénol. 1: 70. 1980.
Basionym: *Hypnum mnioides* W. J. Hooker, 1818.

P. novae-caledoniae (Bescherelle) Manuel, Cryptog. Bryol. Lichénol. 1: 69. 1980, "*nova-caledoniae*."
Basionym: *Rhizogonium novae-caledoniae* Bescherelle, 1873.

P. novae-caledoniae var. *minus* (Bescherelle) Pursell & W. D. Reese, J. Hattori Bot. Lab. 53: 460. 1982.
Basionym: *Rhizogonium novae-hollandiae* var. *minus* Bescherelle, 1873.

P. novae-caledoniae var. *taoense* (Thériot) Pursell & W. D. Reese, J. Hattori Bot. Lab. 53: 461. 1982.
Basionym: *Rhizogonium novae-caledoniae* var. *taoense* Thériot, 1921.

P. paramattense (C. Müller) Manuel, Cryptog. Bryol. Lichénol. 1: 69. 1980.
Basionym: *Mnium paramattense* C. Müller, 1851.

P. spiniforme (Hedwig) Mitten, 1868.

P. spiniforme var. *acunhense* (Bescherelle) Manuel, Cryptog. Bryol. Lichénol. 1: 69. 1980.
Basionym: *Rhizogonium spiniforme* var. *acunhense* Bescherelle, 1880.

P. spiniforme var. *badakense* (Fleischer) Manuel, Cryptog. Bryol. Lichénol. 1: 69. 1980.
Basionym: *Rhizogonium badakense* Fleischer, 1904.

P. spiniforme var. *brevifolium* (Bescherelle) Manuel, Cryptog. Bryol. Lichénol. 1: 69. 1980.
Basionym: *Rhizogonium spiniforme* var. *brevifolium* Bescherelle, 1880.

P. spiniforme var. *comorense* (C. Müller) Manuel, Cryptog. Bryol. Lichénol. 1: 69. 1980.
Basionym: *Mnium spiniforme* var. *comorense* C. Müller, 1876.

P. spiniforme var. *elatum* (Bosch & Sande Lacoste) Manuel, Cryptog. Bryol. Lichénol. 1: 69. 1980.
Basionym: *Rhizogonium spiniforme* var. *elatum* Bosch & Sande Lacoste, 1861.

P. spiniforme var. *minus* (Cardot) Manuel, Cryptog. Bryol. Lichénol. 1: 70. 1980.
Basionym: *Rhizogonium spiniforme* var. *minus* Cardot, 1912.

P. spiniforme var. *ryukyuense* (Iwatsuki) Manuel, Cryptog. Bryol. Lichénol. 1: 70. 1980.
Basionym: *Rhizogonium spiniforme* var. *ryukyuense* Iwatsuki, 1972.

P. spiniforme var. *samoense* (Brotherus in Rechinger) Manuel, Cryptog. Bryol. Lichénol. 1: 70. 1980.
Basionym: *Rhizogonium spiniforme* var. *samoense* Brotherus in Rechinger, 1908.

Pyrrhobryum, continued.
P. vallis-gratiae (Hampe ex C. Müller) Manuel, Cryptog. Bryol. Lichénol. 1: 70. 1980.
Basionym: *Mnium vallis-gratiae* Hampe ex C. Müller, 1859.

Quathlamba Magill, Fl. S. Africa, Bryophyta 1: 421. 1987.
Type: *Q. debilicostata* Magill, holotype.
Original placement: Bartramiaceae.
Q. debilicostata Magill, Fl. S. Africa, Bryophyta, Mosses 2: 421. f. 120. 1987.
Type: Lesotho. Sani Pass, 2860 m, *Magill 4512*. Holotype: MO; isotype: PRE.

Racelopodopsis Thériot, 1907.
R. camusii Thériot, Monde Pl., ser. 2, 9: 22. 1907.
Other use: *Pogonatum camusii* (Thériot) Touw, 1986.
R. mindanensis (E. B. Bartram) G. L. Smith, Phytologia 18: 403. 1969.
Basionym: *Pseudoracelopus mindanensis* E. B. Bartram, 1939.
R. papillosa (Horikawa) G. L. Smith, Phytologia 18: 403. 1969, "*papillosus*."
Basionym: *Pogonatum papillosum* Horikawa, 1934.

Racelopus Dozy & Molkenboer, Bryol. Jav. 1: 37. 1855.
Other use: *Pogonatum* sect. *Racelopus* (Dozy & Molkenboer) Touw, 1986.
R. acaulis Mitten in Stapf, Trans. Linn. Soc. London, Bot., ser. 2, 4: 258. 1894.
Other use: *Pogonatum iwatsukii* Touw, 1986, *Pseudoracelopus acaulis* (Mitten in Stapf) Iwatsuki, 1969.
R. pilifer Dozy & Molkenboer, Bryol. Jav. 1: 37. pl. 27. 1856.
Other use: *Pogonatum piliferum* (Dozy & Molkenboer) Touw, 1986.
R. ponapensis Sakurai, Bot. Mag. (Tokyo) 37: 91. f. 14. 1943.
Other use: *Pseudoracelopus ponapensis* (Sakurai) G. L. Smith, 1969.
**R. subcostata* Dixon & Herzog in Dixon ex Wijk, Margadant & Florschütz, Regnum Veg. 65: 872 (Ind. Musc. 5: 872). 1969.
*invalid, orthographic variant (Article 75.1).
Correct name: *Racelopodopsis subcostata* Dixon & Herzog in Herzog, 1932.

Racomitrium Bridel, 1818 [1819].
R. subsect. *Canescens* Frisvoll, Gunneria 41: 106. 1983.
Type: *Trichostomum canescens* Hedwig, *R. canescens* (Hedwig) Bridel, holotype.
R. sect. *Ellipticodryptodon* (Vilhelm) Ochyra, Sérgio & Schumacker, Bull. Jard. Bot. Natl. Belgique 58: 246. 1988.
Basionym: *Dryptodon* subgen. *Ellipticodryptodon* Vilhelm, 1923.
R. subsect. *Ericoides* Frisvoll, Gunneria 41: 58. 1983.
Type: *Trichostomum canescens* var. *ericoides* Hedwig, *R. ericoides* (Hedwig) Bridel, holotype.

Racomitrium, continued.

R. aciculare (Hedwig) Bridel, 1819 [1818].

R. aciculare var. *brachypodium* Bescherelle, Ann. Sci. Nat. Bot., ser. 7, 17: 338. 1893.

Other use: *Racomitrium heterostichum* var. *brachypodium* (Bescherelle) Noguchi, 1974.

R. afoninae Frisvoll, J. Bryol. 15: 275. f. 1-2. 1988.

Type: U.S.S.R. Central Chukotka, Gilmimlineiskii Hot Springs, 15 km E of Lake Yoni, *Afonina*, 1977. Holotype: H; isotypes: ALA, ALTA, LE, NY, TRH. Paratypes cited.

Original placement: sect. *Laevifolia*.

R. albipiliferum Gao Chien & Cao Tong in Gao Chien, Zhang Man-xiang & Cao Tong, Acta Bot. Yunnan. 3: 396. f. 5: 9-17. 1981.

Type: China. Xizang: Districtus Ding ye Xian, *Lang 1116*. Holotype: IFP; isotype: PE.

R. bartramii (Roivainen) H. Robinson, Phytologia 29: 117. 1974.

Basionym: *Bucklandia bartramii* Roivainen, 1955.

R. brevipes Kindberg, Bull. Torrey Bot. Club 17: 272. 1890.

Other use: *Racomitrium sudeticum* fo. *brevipes* (Kindberg) E. Lawton, 1971.

R. brevipes var. *muticum* Kindberg in Macoun, Bull. Torrey Bot. Club 17: 272. 1890.

Other use: *Racomitrium muticum* (Kindberg in Macoun) Frisvoll, 1983.

R. canescens (Hedwig) Bridel, 1819 [1818].

R. canescens subsp. *latifolium* (J. M. Lange & C. E. O. Jensen) Frisvoll, Gunneria 41: 123. 1983.

Basionym: *Racomitrium canescens* var. *latifolium* J. M. Lange & C. E. O. Jensen, 1887.

R. canescens var. *latifolium* J. M. Lange & C. E. O. Jensen, Meddel. Grønland 3: 345. 1887.

Other use: *Racomitrium canescens* subsp. *latifolium* (J. M. Lange & C. E. O. Jensen) Frisvoll, 1983.

R. capillifolium Frisvoll, Gunneria 59: 173. 1988.

Type: Bhutan. Thimphu district, above Pajoding monasteries, Thimphu, 3750 m, *Long 10884*. Holotype: E; isotypes: KUN, NICH, NY, TRH.

R. capillifolium var. *lorifolium* Frisvoll, Gunneria 59: 176. 1988.

Type: India. Sikkim: Fragloo Top, *Kurz s.n.* Holotype: BM; isotype: BM.

R. crispulum (J. D. Hooker & Wilson) J. D. Hooker & Wilson, 1854, "*crispulus*."

R. crispulum var. *tasmanicum* (Hampe) E. Lawton, Bull. Torrey Bot. Club 100: 233. 1973 [1974].

Basionym: *Racomitrium heterostichum* var. *tasmanicum* Hampe, 1854.

R. crumianum Fife, New Zealand J. Bot. 22: 1. f. 1-13. 1984.

Type: New Zealand. South Island: Nelson, Granity Creek on the NW flank of Lookout Range, 41°31' S, 172°35' E, 1342 m, *Fife 5148*. Holotype: CHR; isotypes: MICH, NSW, herb. Fife.

Racomitrium, continued.

R. elongatum Ehrhart ex Frisvoll, Gunneria 41: 74. f. 1: a, 2: e, 5-6, 9: b, 10: a, 12: a, 16: c, 18: a, c-d, 20: b, 23, 26, 38: a-b, 45: c ,49: c, 50. 1983.
Type: Norway. Sor-Trondelag: Skaun, Djupsjoasen, ca. 500 m SE of Cottage, *Frisvoll*, 1982. Holotype: TRH; isotypes: ALTA, B, BG, C, CANM, G, H, JE, NY, O, S, TRH, UBC, WTU. Other indicated distribution: Canada, Eurasia, Greenland, Iceland, U.S.A.

R. fasciculare (Schrad. ex Hedw.) Bridel, 1819 [1818].

R. fasciculare var. *hayachinense* Noguchi, J. Hattori Bot. Lab. 38: 356. f. 7: 22-29. 1974.
Type: Japan [Honshu]. Mt. Hayachine, *Hosoi*, 1954. Holotype: NICH.

R. geronticum C. Müller, Verh. Zool.-Bot. Ges. Wien 19: 224. 1869.
Other use: *Racomitrium lanuginosum* subsp. *geronticum* (C. Müller) Vitt & C. Marsh, 1988.

R. heterostichum (Hedwig) Bridel, 1819 [1818].

R. heterostichum var. *brachypodium* (Bescherelle) Noguchi, J. Hattori Bot. Lab. 38: 367. 1974.
Basionym: *Racomitrium aciculare* var. *brachypodium* Bescherelle, 1893.

R. heterostichum var. *tasmanicum* Hampe, Linnaea 25: 714. 1854, "*tasmanica*."
Other use: *Racomitrium crispulum* var. *tasmanicum* (Hampe) E. Lawton, 1973 [1974].

R. joseph-hookeri Frisvoll, Gunneria 59: 197. 1988.
Type: India. Sikkim Himalaya, 13,000 feet, *Hooker s.n.* (Herb. Ind. Orient. 322). Holotype: BM; isotypes: BM, L, S.

R. lanuginosum (Hedwig) Bridel, 1819 [1818].

R. lanuginosum subsp. *geronticum* (C. Müller) Vitt & C. Marsh, Beih. Nova Hedwigia 90: 256. 1988.
Basionym: *Racomitrium geronticum* C. Müller, 1869.

R. lawtonae Ireland, Bryologist 73: 707. f. 1-12. 1970.
Type: Canada. British Columbia: Queen Charlotte Islands, NW coast of Moresby Island, Mitchell Inlet, *Schofield 5433*. Holotype: CANM.

R. macounii Kindberg, Bull. Torrey Bot. Club 16: 93. 1889.
Other use: *Racomitrium sudeticum* fo. *macounii* (Kindberg) E. Lawton, 1971.

R. macounii subsp. *alpinum* (E. Lawton) Frisvoll, Gunneria 59: 60. 1988.
Basionym: *Racomitrium sudeticum* fo. *alpinum* E. Lawton, 1971.

R. microcarpum (Hedwig) Bridel, 1819 [1818].

R. microcarpum fo. *afoninae* Frisvoll, Gunneria 59: 155. 1988, "*microcarpon*."
Type: U.S.S.R. Chukotka, Inchoun Village, *Afonina*, 1975. Holotype: LE; isotypes: ALTA, TRH.

R. muticum (Kindberg in Macoun) Frisvoll, Gunneria 41: 95. 1983.
Basionym: *Racomitrium brevipes* var. *muticum* Kindberg in Macoun, 1890.

R. obesum Frisvoll, Gunneria 59: 117. 1988.
Type: U.S.A. California: Trinity Co., near Norse Butte, 1340 m, *Duell*, 1981. Holotype: NY; isotype: B.

Racomitrium, continued.

R. obtusum (Bridel) Bridel, 1819 [1818].

R. obtusum fo. *trichophorum* Frisvoll, Gunneria 59: 126. 1988.
Type: Norway. Hordaland: Bergen, *Blom*, 1985. Holotype: TRH; isotype: BG.

R. pacificum Ireland & Spence, Canad. J. Bot. 65: 859. f. 1-10. 1987, "*Rhacomitrium*."
Type: Canada. British Columbia: Vancouver Island, Victoria, Mt. Tolmia, *Schofield & Boas 22668*. Holotype: UBC; isotype: CANM. Other indicated distribution: U.S.A. (California, Oregon, Washington).

R. patens (Dickson ex Hedwig) Hübener, 1833.

R. patens var. *brachydictyon* Cardot, Bull. Herb. Boissier, sér. 2, 8: 333. 1908.
Other use: *Grimmia brachydictyon* (Cardot) Deguchi, 1978 [1979].

**R. perpusillum* Brotherus ex Wu Pan-cheng, Lou Jian-shing & Wang Mei-zhi, Gloss. Terms Names Bryoph. 105. 1984.
*invalid, no Latin description (Article 36.1).

R. pygmaeum Frisvoll, Gunneria 41: 83. f. 14: a, 16: g, 18: b, 27-29. 1983.
Type: Canada. British Columbia: SW exposed slope near Little Diamond Head, Garibaldi Park, 5950 feet, *Peterson BP118*. Holotype: UBC. Other indicated distribution: Canada, U.S.A.

R. steerei Griffin, Mem. New York Bot. Gard. 45: 298. f. 12-21. 1987.
Type: Venezuela. Merida: paramo de Mucubaji, *Fransen 1443*. Holotype: FLAS; isotypes: NY, herb. Fransen. Paratypes cited.

R. sudeticum (Funck) Bruch & W. P. Schimper in B.S.G., 1845.

R. sudeticum fo. *alpinum* E. Lawton, Moss Fl. Pacific Northwest 147. pl. 77: f. 5-8. 1971.
Type: U.S.A. Washington: Whatcom Co., near Mt. Baker Lodge, 1400 m, *Lawton 3676*. Holotype: WTU.

R. sudeticum fo. *americanum* E. Lawton, Moss Fl. Pacific Northwest 147. pl. 78: f. 1-7. 1971.
Type: U.S.A. Washington: Pierce Co., Mt. Rainier, 1900 m, *Lawton 4813*. Holotype: WTU.

R. sudeticum fo. *brevipes* (Kindberg) E. Lawton, Moss Fl. Pacific Northwest 147. 1971.
Basionym: *Racomitrium brevipes* Kindberg, 1890.

R. sudeticum fo. *kindbergii* Frisvoll, Gunneria 59: 80. 1988.
Type: France. Sommet du Sancy, 1900 m, *Buysson s.n.* Holotype: S; isotype: JE.

R. sudeticum fo. *macounii* (Kindberg) E. Lawton, Moss Fl. Pacific Northwest 147. 1971.
Basionym: *Racomitrium macounii* Kindberg, 1889.

R. sudeticum fo. *terricola* Frisvoll, Gunneria 59: 83. 1988.
Type: Iceland. Loc. 3536 Hljodabunga i Drangajokli, *Einarsson 16015*. Holotype: ICEL; isotypes: TRH, UBC.

R. venustum Frisvoll, Gunneria 59: 135. 1988.
Type: Canada. Ontario: Lakehead University, Thunder Bay, *Garton 18879*. Holotype: CANM; isotype: H.

Racomitrium, continued.
R. verrucosum Frisvoll, Gunneria 59: 159. 1988.
Type: Nepal. Between Thang La pass and Thudam, 4550 m, *Iwatsuki 1459*. Holotype: NICH; isotypes: H, L.
R. verrucosum var. *emodense* Frisvoll, Gunneria 59: 162. 1988.
Type: Nepal. Rochers de la Chouk Pula, 5000 m, *Zimmermann 293*. Holotype: BM; isotype: NICH.
R. vulcanicola Frisvoll & Deguchi, Gunneria 59: 167. 1988.
Type: Japan [Hokkaido]. Kamikawa, Sorachi-gun, Kamifurano-cho, Mt. Furano, 1600 m, *Deguchi 12339*. Holotype: TRH; isotypes: H, KOCH.

Racopilum Palisot de Beauvois, 1805.
R. anomalum Schwägrichen, Sp. Musc. Frond., Suppl. 3 2(2): 278. 1830.
Other use: *Achrophyllum anomalum* (Schwägrichen) H. Robinson, 1974.
R. brevisetum E. B. Bartram, Occas. Pap. Bernice P. Bishop Mus. 19: 226. 1948.
Other use: *Powellia breviseta* (E. B. Bartram) Zanten, 1969.
R. squarrifolium (E. B. Bartram) T. Koponen & Norris, Acta Bot. Fenn. 131: 125. 1985.
Basionym: *Leptostomum squarrifolium* E. B. Bartram, 1953.

Rainera De Notaris, 1838.
R. splachnoides De Notaris, Syllab. Musc. 275. 1838.
Note: not in Index Muscorum.

***Rauia** Austin, 1880.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Rauia* Nees & C. Martius, 1823.
Correct name: *Rauiella* Reimers, 1937.
R. bornii Herzog, Beih. Bot. Centralbl. 27(2): 352. 1910.
Other use: *Rauiella bornii* (Herzog) F. J. Hermann, 1976.

Rauiella Reimers, 1937.
R. bornii (Herzog) F. J. Hermann, Bryologist 79: 154. 1976.
Basionym: *Rauia bornii* Herzog, 1910.
**R. mexicana* (Bescherelle) Wijk & Margadant, Taxon 14: 197. 1965.
*invalid, basionym invalid (Article 33.2).

Rechingerella J. Fröhlich, Ann. Naturhist. Mus. Wien 66: 36. f. 1-4. 1963.
Type: *R. macedonica* J. Fröhlich, holotype.
Original placement: Trichostomaceae.
R. macedonica J. Fröhlich, Ann. Naturhist. Mus. Wien 66: 36. f. 1-4. 1963.
Type: Greece. Macedonia: Kavalla, 150-200 m, *Rechinger*, 1961. Holotype: W.

Regmatodon Bridel, 1827.
R. longinervis Gao Chien in Gao Chien, Zhang Man-xiang & Cao Tong, Acta Bot. Yunnan. 3: 398. f. 2: 23-27. 1981.
Type: China. Xizang: Districtus Yadong Xian, *Yang 16*. Holotype: IFP.

Rehmanniella C. Müller, 1881.
R. africana C. Müller, Bot. Centralbl. 7: 347. 1881.
Other use: *Goniomitrium acuminatum* subsp. *africanum* (C. Müller) Fife, 1985.

Renauldia C. Müller ex Renauld, 1891.
R. hoehnelii (C. Müller) Brotherus, 1906.
R. hoehnelii var. *angustifolia* Tosco & Piovano, Allionia 4: 124. f. 8. 1956.
Note: not in Index Muscorum.
R. lycopodioides Bizot ex Pócs, Fol. Hist. Nat. Mus. Matr. 4: 33. 1976-77 [1977].
Type: Tanzania. West Usambara Mts., Mazumbai Forest Reserve, *Jones & Pócs 6372/BB*. Holotype: EGR; isotypes: BP, DSM, EA, herb. Bizot, herb. Jones.
R. paradoxica B. H. Allen, J. Bryol. 14: 678. f. 1-8. 1987.
Type: Panama. Veraguas: 5.4 km NW of Sta. Fe, 350 m, *Crosby 10154*. Holotype: MO; isotype: PMA.

Retidens Dixon, 1936.
R. stewartii Dixon, J. Bot. 74: 8. pl. 610: f. 9. 1936.
Other use: *Entodon stewartii* (Dixon) Buck, 1980.

Rhabdoweisia Bruch & W. P. Schimper in B.S.G., 1846.
R. lineata Richards & Argent, Trans. Brit. Bryol. Soc. 5: 573. f. 1. 1968.
Type: Cameroon. West Cameroon, Cameroons Mountain, near Ekundetewa, Mann's Spring, 8400 feet, *Jones*, 1948. Holotype: herb. Richards.

Rhachitheciopsis Potier de la Varde, 1926.
R. tisserantii Potier de la Varde, Bull. Soc. Bot. France 73: 74. pl. 1. 1926.
Other use: *Rhachithecium tisserantii* (Potier de la Varde) H. Robinson, 1964.

Rhachithecium Brotherus ex Le Jolis, 1895.
R. subgen. *Rhachitheciopsis* (Potier de la Varde) H. Robinson, Bryologist 67: 448. 1964.
Basionym: *Rhachitheciopsis* Potier de la Varde, 1926.
R. tisserantii (Potier de la Varde) H. Robinson, Bryologist 67: 448. 1964.
Basionym: *Rhachitheciopsis tisserantii* Potier de la Varde, 1926.

Rhamphidium Mitten, 1869.
R. crassicostatum Li Xing-jiang, Acta Bot. Yunnan. 3: 101. f. 1. 1981.
Type: China. Xizang: Lhunze Xian, Sangngagqoiling, 3100 m, *Zang 1444*. Holotype: KUN.

Rhamphidium, continued.

**R. cribbifolium* Dixon ex Wijk, Margadant & Florschütz, Regnum Veg. 65: 878 (Ind. Musc. 5: 878). 1969.
*invalid, orthographic variant (Article 75.1).
Correct name: *Rhamphidium crispifolium* Dixon, 1942.

R. crispifolium Dixon, Anniv. Vol. Bot. Gard. Calcutta 179. 1942.
Note: not in Index Muscorum.

R. laticuspe Dixon, Anniv. Vol. Bot. Gard. Calcutta 179. 1942.
Note: not in Index Muscorum.

R. mussuriense Dixon, Anniv. Vol. Bot. Gard. Calcutta 179. 1942.
Note: not In Index Muscorum.

R. novoguineensis Norris & T. Koponen, Acta Bot. Fenn. 137: 98. f. 4: f-k. 1989.
Type: Papua New Guinea. Madang: 5 km NW of Teptep airstrip, 2900 m, *Koponen 34628*. Holotype: H; isotypes: CBG, LAE. Paratype cited.

Rhaphidorrhynchium Bescherelle ex Fleischer, 1923.

R. chichibuense Seki, Hikobia, Suppl., 1: 241. f. 2. 1981.
Type: Japan [Honshu]. Saitama: NI-54-31-5, Kinpusan, Jumonji Pass, Ontaki-mura, Chichibu-gun, *Nagano 4732*. Holotype: HIRO; isotype: herb. Nagano.

R. hyoji-suzukii Seki, Hikobia, Suppl., 1: 239. f. 1. 1981.
Type: Japan. NK-54-24-1, Hakkodasan, Mt. Hakkod, Arakawa-Yokonuma, 900-1000 m, *Suzuki 7550*. Holotype: HIRO.

R. zuluense Sim, Trans. Roy. Soc. South Africa 15: 438. illustration. 1926.
Other use: *Sematophyllum zuluense* (Sim) Magill in Magill & Schelpe, 1979.

***Rhaphidostegium** (B.S.G.) De Notaris, 1867.
*illegitimate, type of earlier name included (Article 63.1).
Correct name: *Sematophyllum* Mitten, 1864.

R. barnesii Renauld & Cardot, Bull. Soc. Roy. Bot. Belgique 29(1): 182. 1890, *"barnesi."*
Other use: *Sematophyllum barnesii* (Renauld & Cardot) Buck, 1983.

R. dimorphum Renauld & Cardot, Bull. Soc. Roy. Bot. Belgique 41(1): 128. 1902-03 [1905].
Other use: *Sematophyllum dimorphum* (Renauld & Cardot) F. D. Bowers, 1974.

R. harpidioides Renauld & Cardot, Bull. Soc. Roy. Bot. Belgique 41(1): 133. 1902-03 [1905].
Other use: *Sematophyllum harpidioides* (Renauld & Cardot) F. D. Bowers, 1974.

R. indosinense Brotherus & Paris in Paris, Rev. Bryol. 34: 46. 1907.
Other use: *Pylaisiadelpha indosinensis* (Brotherus & Paris in Paris) Buck, 1984.

R. japonicum Brotherus, Hedwigia 38: 230. 1899.
Other use: *Sematophyllum subhumile* subsp. *japonicum* (Brotherus) Seki, 1968.

Rhaphidostegium, continued.

R. julicaule Brotherus & Paris, Rev. Bryol. 29: 70. 1902.
Other use: *Acanthocladiella julicaulis* (Brotherus & Paris) H. Robinson & C. F. Reed, 1966.

R. laxitextum Renauld & Cardot, Bull. Soc. Roy. Bot. Belgique 34(2): 76. 1895 [1896].
Other use: *Wijkia laxitexta* (Renauld & Cardot) H. Crum, 1971.

R. longirameum Brotherus, Akad. Wiss. Wien, Math.-Naturwiss. Kl., Denkschr. 83: 340. 1927.
Other use: *Sematophyllum longirameum* (Brotherus) Sehnem, 1978.

R. lutschianum Brotherus & Paris, Bull. Herb. Boissier, sér. 2, 2: 931. 1902.
Other use: *Rhaphidostichum lutschianum* (Brotherus & Paris) Seki, 1968.

R. luzonense Brotherus, Philipp. J. Sci. 13: 220. 1918.
Other use: *Sematophyllum brotheri* Iwatsuki & B. C. Tan, 1977.

R. ovalifolium Bescherelle, Ann. Sci. Nat. Bot., ser. 6, 10: 300. 1880.
Other use: *Ectropothecium ovalifolium* (Bescherelle) Buck, 1987.

R. pectinatum Herzog, Arch. Bot. Sao Paulo 1(2): 88. 1925.
Other use: *Sematophyllum pectinatum* (Herzog) Schafer-Verwimp, 1989.

R. protensum Renauld & Cardot, Bull. Soc. Roy. Bot. Belgique 29(1): 183. 1890.
Other use: *Wijkia protensa* (Renauld & Cardot) H. Crum, 1971.

R. pylaisiadelphus Bescherelle, Ann. Sci. Nat. Bot., ser. 7, 15: 90. 1892.
Other use: *Pylaisiadelpha brotherella* Buck, 1984.

R. robusticaule Brotherus, Akad. Wiss. Wien, Math.-Naturwiss. Kl., Denkschr. 83: 342. 1927.
Other use: *Sematophyllum robusticaule* (Brotherus) Sehnem, 1978.

R. roellii Renauld & Cardot, Bot. Centralbl. 44: 423. 1890.
Other use: *Pylaisiadelpha roellii* (Renauld & Cardot) Buck, 1984.

R. sebillei Brotherus & Thériot, Rev. Bryol. 51: 10. 1924.
Other use: *Sematophyllum sebillei* (Brotherus & Thériot) R. S. Chopra, 1975.

R. simulans Renauld & Cardot, Bull. Soc. Roy. Bot. Belgique 41(1): 131. 1902-03 [1905].
Other use: *Sematophyllum simulans* (Renauld & Cardot) F. D. Bowers, 1974.

R. subcespitosum Renauld & Cardot, Bull. Soc. Roy. Bot. Belgique 41(1): 127. 1902-03 [1905].
Other use: *Sematophyllum subcespitosum* (Renauld & Cardot) F. D. Bowers, 1974.

R. tonduzii Renauld & Cardot, Bull. Soc. Roy. Bot. Belgique 41(1): 129. 1902-03 [1905].
Other use: *Sematophyllum tonduzii* (Renauld & Cardot) F. D. Bowers, 1974.

R. turgidulum Herzog, Biblioth. Bot. 87: 156. f. 74: g-m. 1916.
Other use: *Sematophyllum turgidulum* (Herzog) Churchill, 1989.

**R. wattsii* Brotherus in H. P. Ramsay, Taxon 29: 467. 1980.
*invalid, no Latin description (Article 36.1), not Paris (1900).

Rhaphidostichum Fleischer, 1923.
R. acestrostegium (Sullivant) Buck, Moscosoa 5: 190. 1989.
Basionym: *Hypnum acestrostegium* Sullivant, 1861.
R. boschii (Dozy & Molkenboer) Seki, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 12: 58. 1968.
Basionym: *Hypnum boschii* Dozy & Molkenboer, 1844.
R. boschii subsp. *basilanense* (Brotherus) Seki, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 12: 58. 1968.
Basionym: *Trichosteleum basilanense* Brotherus, 1918.
R. boschii subsp. *thelidictyon* (Sullivant & Lesquereux) Seki, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 12: 55. 1968.
Basionym: *Hypnum thelidictyon* Sullivant & Lesquereux, 1859.
R. chaetomitriopsis (Dixon) Touw, Nat. Hist. Bull. Siam Soc. 22: 239. 1968.
Basionym: *Trichosteleum chaetomitriopsis* Dixon, 1935.
R. elegans H. Robinson, Acta Biol. Venez. 1: 79. f. 17-21. 1965.
Type: Venezuela. Bolivar: Cerro Venamo, a lo largo del afluente izquierdo (este) subiendo el Rio Venamo, 950-1000 m, *Steyermark & Dunsterville 92957*. Holotype: US; isotype: VEN.
R. gunckelii Thériot, Revista Chilena Hist. Nat. 34: 258. f. 49. 1930.
Other use: *Sematophyllum gunckelii* (Thériot) Buck, 1989.
R. longicuspidatum Seki, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 12: 66. f. 8, 28. 1968.
Type: Japan. Amamioshima Island: Yuwan, Mt. Yuwandake, 670 m, *Seki TS-34217*. Holotype: HIRO.
R. lutschianum (Brotherus & Paris) Seki, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 12: 53. 1968.
Basionym: *Rhaphidostegium lutschianum* Brotherus & Paris, 1902.
R. luxurians (Dozy & Molkenboer) Fleischer, 1923.
R. luxurians var. *terrestre* Zanten, Nova Guinea, Bot. 10(16): 335. pl. 30: f. 3. 1964.
Type: Indonesia [New Guinea]. Irian Barat: Sibil-valley, Basis Camp, 1300 m, *Zanten 65*. Holotype: L; isotype: GRO.
R. pustulatum Hoe, Bryologist 76: 313. f. 9-14. 1973.
Type: U.S.A. Hawaii: Oahu, Koolau Mountains, Hauula Forest Reserve, Ahupuaa of Punaluu, Castle Trail 41, *Meeker 0:63M*. Holotype: BISH; isotypes: MICH, herb. Hoe.
Original placement: sect. *Rhaphidostichella*.
R. stissophyllum (Hampe & C. Müller) Chiang Tzen-yuh & Kuo Chen-meng, Taiwania 34: 138. 1989.
Basionym: *Hypnum stissophyllum* Hampe & C. Müller, 1851.

+ **Rhizinigerites** Goman'kov & Mejen, Trudy Akad. Nauk SSSR, Ordena Trud. Krasn. Geol. Inst. 401: 28. 1986.
Type: *R. neuburgae* Goman'kov & Mejen, holotype.
Original placement: not indicated by authors.

Rhizinigerites, continued.

+*R. neuburgae* Goman'kov & Mejen, Trudy Akad. Nauk SSSR, Ordena Trud. Krasn. Geol. Inst. 401: 28. f. 6. 1986.
Type: U.S.S.R. Weelead, *Neuburg*. Holotype: Geological Institute, Moscow.

Rhizofabronia (Brotherus) Fleischer, 1923.

R. persoonii (Schwägrichen) Fleischer, 1923.

**R. persoonii* var. *sphaerocarpa* (Dusén) Bizot, Acta Bot. Acad. Sci. Hung. 18: 14. 1973.
*invalid, basionym not cited (Article 33.2).

Rhizogonium Bridel, 1827.

R. armatum Sakurai, Bot. Mag. (Tokyo) 55: 207. f. 5. 1941.
Other use: *Pyrrhobryum armatum* (Sakurai) Manuel, 1980.

R. badakense Fleischer, Musci Buitenzorg 2: 595. f. 111. 1904.
Other use: *Pyrrhobryum spiniforme* var. *badakense* (Fleischer) Manuel, 1980, *Rhizogonium spiniforme* var. *badakense* (Fleischer) Iwatsuki in Inoue & Iwatsuki, 1976.

R. boninense Iwatsuki, Bull. Natl. Sci. Mus. 12: 298. 1969.
Replaced name: *Rhizogonium venustum* Bescherelle, 1898.
Blocking name: *Rhizogonium venustum* (Mitt.) Jaeger, 1875.
Other use: *Rhizogonium spiniforme* var. *boninense* (Iwatsuki) Noguchi, 1989.

R. brevifolium Brotherus, Oefers. Förh. Finska Vetensk.-Soc. 33: 102. 1890.
Other use: *Pyrrhobryum brevifolium* (Brotherus) Manuel, 1980.

R. dozyanum Sande Lacoste, Ann. Mus. Bot. Lugduno-Batavum 2: 295. pl. 9. 1866.
Other use: *Pyrrhobryum dozyanum* (Sande Lacoste) Manuel, 1980.

R. mauritianum Hampe ex Bescherelle, Ann. Sci. Nat. Bot., ser. 6, 10: 242. 1880.
Other use: *Pyrrhobryum mauritianum* (Hampe ex Bescherelle) Manuel, 1980.

R. medium Bescherelle, Ann. Sci. Nat. Bot., ser. 5, 18: 217. 1873.
Other use: *Pyrrhobryum medium* (Bescherelle) Manuel, 1980.

R. medium var. *brevisetum* Thériot, Rev. Bryol. 48: 26. 1921.
Other use: *Pyrrhobryum medium* var. *brevisetum* (Thériot) Manuel, 1980.

R. medium var. *laxifolium* Thériot in Sarasin & J. Roux, Nova Caledonia, Bot. 26. 1914.
Other use: *Pyrrhobryum medium* var. *laxifolium* (Thériot in Sarasin & J. Roux) Manuel, 1980.

R. novae-caledoniae Bescherelle, Ann. Sci. Nat. Bot., ser. 5, 13: 217. 1873.
Other use: *Pyrrhobryum novae-caledoniae* (Bescherelle) Manuel, 1980.

R. novae-caledoniae var. *taoense* Thériot, Rev. Bryol. 48: 25. 1921.
Other use: *Pyrrhobryum novae-caledoniae* var. *taoense* (Thériot) Pursell & W. D. Reese, 1982.

Rhizogonium, continued.

R. novae-hollandiae (Bridel) Bridel, 1827.

R. novae-hollandiae var. *minus* Bescherelle, Ann. Sci. Nat. Bot., ser. 5, 18: 218. 1873.

Other use: *Pyrrhobryum novae-caledoniae* var. *minus* (Bescherelle) Pursell & W. D. Reese, 1982.

R. pseudodistichum Noguchi & Iwatsuki, J. Hattori Bot. Lab. 39: 322. f. 4. 1975.

Type: Malaysia [Borneo]. Sabah: Mt. Kinabalu, between Kambaranga Radio Stationand Second Radio Station, 2140-2500 m, *Iwatsuki 739a*. Holotype: NICH.

R. spiniforme (Hedwig) Bruch in Krauss, 1846.

R. spiniforme var. *acunhense* Bescherelle, Ann. Sci. Nat. Bot., ser. 6, 10: 242. 1880.

Other use: *Pyrrhobryum spiniforme* var. *acunhense* (Bescherelle) Manuel, 1980.

R. spiniforme var. *badakense* (Fleischer) Iwatsuki in Inoue & Iwatsuki, J. Hattori Bot. Lab. 41: 400. 1976.

Basionym: *Rhizogonium badakense* Fleischer, 1904.

R. spiniforme var. *boninense* (Iwatsuki) Noguchi, Ill. Moss Fl. Japan 3: 551. 1989.

Basionym: *Rhizogonium boninense* Iwatsuki, 1969.

R. spiniforme var. *brevifolium* Bescherelle, Ann. Sci. Nat. Bot., ser. 6, 10: 241. 1880.

Other use: *Pyrrhobryum spiniforme* var. *brevifolium* (Bescherelle) Manuel, 1980.

R. spiniforme var. *elatum* Bosch & Sande Lacoste, Bryol. Jav. 2: 1. pl. 132. 1861.

Other use: *Pyrrhobryum spiniforme* var. *elatum* (Bosch & Sande Lacoste) Manuel, 1980.

R. spiniforme var. *minus* Cardot, Annuaire Conserv. Jard. Bot. Genève 15-16: 168. 1912.

Other use: *Pyrrhobryum spiniforme* var. *minus* (Cardot) Manuel, 1980.

R. spiniforme var. *ryukyuense* Iwatsuki, J. Hattori Bot. Lab. 35: 134. f. 6: e-h, 7: e-h. 1972.

Type: Japan. Ryukyus: Amami-oshima, 100 m, *Takaki & Katsurayama 5047*. Holotype: NICH. Other indicated distribution: China (Taiwan).

Other use: *Pyrrhobryum spiniforme* var. *ryukyuense* (Iwatsuki) Manuel, 1980.

R. spiniforme var. *samoense* Brotherus in Rechinger, Akad. Wiss. Wien, Math.-Naturwiss. Kl., Denkschr. 84: 391. 1908.

Other use: *Pyrrhobryum spiniforme* var. *samoense* (Brotherus in Rechinger) Manuel, 1980.

R. sublimbatum H. Crum, Bryologist 84: 390. f. 1-8. 1981.

Type: Costa Rica. Cerro Daser area 6 km along rd. which turns off westward from national rd. no. 4, 5 km S of Asseri, 10 km SSE of city center San José, 9°50' N, 84°07' W, 2250 m, *Crosby & Crosby 6226*. Holotype: MICH.

Rhizogonium, continued.
**R. venustum* Bescherelle, J. Bot. (Morot) 12: 300. 1898.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Rhizogonium venustum* (Mitt.) Jaeger, 1875.
Correct name: *Rhizogonium boninense* Iwatsuki, 1969.

Rhizohypnella Fleischer, 1923.
R. bartramii Zanten, Nova Guinea, Bot. 10(16): 355. pl. 33: f. 3. 1964.
Type: Indonesia [New Guinea]. Irian Barat: Katem, 200 m, *Zanten 287a*.
Holotype: L; isotype: GRO.

Rhizohypnum (Hampe) Herzog, 1916.
R. delicatulum Herzog, Biblioth. Bot. 87: 147. f. 69: a-g. 1916.
Other use: *Mittenothamnium tenellum* F. J. Hermann, 1976.
R. hookerioides Herzog, Biblioth. Bot. 87: 148. 1916.
Other use: *Mittenothamnium hookerioides* (Herzog) F. J. Hermann, 1976.

Rhizomnium (Mitten ex Brotherus) T. Koponen, Ann. Bot. Fenn. 5: 142. 1968.
Basionym: *Mnium* sect. *Rhizomnium* Mitten ex Brotherus, 1904.
R. sect. *Micromnium* T. Koponen, Ann. Bot. Fenn. 5: 143. 1968.
Type: *Mnium minutulum* Bescherelle, *R. minutulum* (Bescherelle) T. Koponen, holotype.
R. andrewsianum (Steere) T. Koponen, Ann. Bot. Fenn. 5: 143. 1968.
Basionym: *Mnium andrewsianum* Steere, 1958.
R. appalachianum T. Koponen, Ann. Bot. Fenn. 10: 11. f. 38-48, 86. 1973.
Type: Canada. Ontario: Nipissing, Algonquin Prov. Park, Highland Hiking Trail, near Lake of Two Rivers, NW of Whitney, 1300 feet, *Koponen, Ireland & Inoue 22774*. Holotype: H; isotype: CANM.
Other use: *Mnium punctatum* var. *appalachianum* (T. Koponen) H. Crum & L. E. Anderson, 1981.
R. glabrescens (Kindberg) T. Koponen, Ann. Bot. Fenn. 5: 143. 1968.
Basionym: *Mnium glabrescens* Kindberg, 1893.
R. gracile T. Koponen, Ann. Bot. Fenn. 10: 16. f. 62-73, 88. 1973.
Type: Canada. Manitoba: 3-5 miles E of Fort Churchill along road to Twin Lake Hill, *Crum 6679*. Holotype: H; isotypes: CANM, NY, UBC.
Other use: *Mnium gracile* (T. Koponen) H. Crum & L. E. Anderson, 1981.
R. hattorii T. Koponen, J. Hattori Bot. Lab. 34: 378. f. 16-18, 39. 1971.
Type: Japan [Kyushu]. Kumamoto: Kuma-gun, Yunomae-cho, Mt. Ichibusa, 1700 m, *Koponen 11023*. Holotype: H; isotype: NICH.
R. horikawae (Noguchi) T. Koponen, J. Hattori Bot. Lab. 34: 380. 1971.
Basionym: *Mnium horikawae* Noguchi, 1934.
R. magnifolium (Horikawa) T. Koponen, Ann. Bot. Fenn. 10: 14. 1973.
Basionym: *Mnium magnifolium* Horikawa, 1935.
R. minutulum (Bescherelle) T. Koponen, Ann. Bot. Fenn. 5: 143. 1968.
Basionym: *Mnium minutulum* Bescherelle, 1893.

Rhizomnium, continued.

R. nudum (Britton & R. S. Williams) T. Koponen, Ann. Bot. Fenn. 5: 143. 1968.
Basionym: *Mnium nudum* Britton & R. S. Williams, 1900.

R. parvulum (Mitten) T. Koponen, Ann. Bot. Fenn. 10: 265. 1973.
Basionym: *Mnium parvulum* Mitten, 1891.

R. perssonii T. Koponen, Memoranda Soc. Fauna Fl. Fennica 44: 34. f. 1-9, 31-33, 48-49, 54-55, 60-61. 1968.
Type: Finland. North Bothnia, Pisavaara Nature Reserve, *Koponen & Koponen 7980*. Holotype: H; isotypes: OULU, S-PA, TNR. Paratypes cited.

R. pseudopunctatum (Bruch & W. P. Schimper) T. Koponen, Ann. Bot. Fenn. 5: 143. 1968.
Basionym: *Mnium pseudopunctatum* Bruch & W. P. Schimper, 1843.

R. punctatum (Hedwig) T. Koponen, Ann. Bot. Fenn. 5: 143. 1968.
Basionym: *Mnium punctatum* Hedwig, 1801.

R. punctatum subsp. *chlorophyllosum* (Kindberg) T. Koponen, Ann. Bot. Fenn. 10: 4. 1973.
Basionym: *Mnium glabrescens* subsp. *chlorophyllosum* Kindberg, 1897 [1898].

R. punctatum var. *elatum* (W. P. Schimper) T. Koponen, Ann. Bot. Fenn. 5: 143. 1968.
Basionym: *Mnium punctatum* var. *elatum* W. P. Schimper, 1860.
Note: redundant combination in Margadant & During, Bekn. Fl. Ned. Blad. Leverm. 443. 1982.

R. punctatum var. *horikawae* (Noguchi) Noguchi in Iwatsuki & Noguchi, Bull. Univ. Mus. Univ. Tokyo 8: 265. 1975.
Basionym: *Mnium horikawae* Noguchi, 1934.

R. striatulum (Mitten) T. Koponen, Ann. Bot. Fenn. 5: 143. 1968.
Basionym: *Mnium striatulum* Mitten, 1891.

R. tuomikoskii T. Koponen, J. Hattori Bot. Lab. 34: 375. f. 10-15, 38. 1971.
Type: Japan [Kyushu]. Miyazaki: Inotani, Sakatani, Nichinan-shi, 250 m, *Iwatsuki & Mizutani*, 1966. Holotype: H; isotype: NICH.

Rhodobryum (W. P. Schimper) Hampe, 1874.

R. chilense Thériot, Revista Chilena Hist. Nat. 28: 132. f. 21. 1924.
Other use: *Bryum rubromarginatum* Ochi, 1982.

R. curranii Brotherus, Philipp. J. Sci. 5: 148. 1910.
Other use: *Bryum curranii* (Brotherus) Ochi, 1967 [1968].

R. huillense (Welwitsch & Duby) Touw, J. Hattori Bot. Lab. 44: 150. 1978.
Basionym: *Bryum huillense* Welwitsch & Duby, 1870.

R. laxelimbatum (Hampe ex Ochi) Iwatsuki & T. Koponen, Acta Bot. Fenn. 96: 14. 1972.
Basionym: *Bryum laxelimbatum* Hampe ex Ochi, 1968.

R. longicaudatum Zang Mu & Li Xing-jiang in Li Xing-jiang et al., Bryofl. Xizang 192. f. 82: 10-17. 1985.
Type: China. Xizang: Jia Gie, *Zang 1669*. Holotype: HKAS.

Rhodobryum, continued.

R. madurense Dixon & Potier de la Varde, Ann. Cryptog. Exot. 3: 177. pl. 3: f. 1. 1930.

Other use: *Bryum madurense* (Dixon & Potier de la Varde) Ochi, 1972.

R. perspinidens (Brotherus) Pócs in Bizot & Pócs, Acta Bot. Acad. Sci. Hung. 25: 257. 1979 [1980].

Basionym: *Bryum perspinidens* Brotherus, 1897.

R. roseodens (C. Müller) Paris, Index Bryol. 1120. 1898.

Note: redundant combination in Churchill, Trop. Bryol. 1: 111. 1989.

R. spathulatum (Hornschuch) Pócs in Bizot & Pócs, Acta Bot. Acad. Sci. Hung. 25: 257. 1979 [1980].

Basionym: *Mnium spathulatum* Hornschuch, 1841.

R. subverticillatum Brotherus, Akad. Wiss. Wien, Math.-Naturwiss. Kl., Denkschr. 83: 299. 1927.

Other use: *Bryum subverticillatum* (Brotherus) Ochi, 1981.

Rhynchostegiella (B.S.G.) Limpricht, 1896.

R. bandaiensis Brotherus & Paris ex Takaki, J. Jap. Bot. 19: 410. f. 12. 1943.

Other use: *Leptodictyum bandaiense* (Brotherus & Paris ex Takaki) Kanda, 1975 [1976].

R. brunelii Tixier, Candollea 44: 502. f. 2. 1989.

Type: Togo. Pres d'Okpahoue, ancienne route d'Atakpame a Kounichou, *Brunel 8125*. Holotype: PC. Paratype cited.

R. compacta (C. Müller) Loeske, 1910.

R. compacta var. *americana* (Grout) H. Crum, Steere & L. E. Anderson, Bryologist 67: 164. 1964.

Basionym: *Amblystegium americanum* Grout, 1910.

R. curviseta (Bridel) Limpricht, 1896.

R. curviseta var. *lacustris* Amann, Fl. Mouss. Suisse 2(Add. Rectific.): 4. 1918.

Note: cited from "Fl. Mouss. Suisse 3: 140. 1933" in Index Muscorum.

R. pumila (Wilson) E. F. Warburg, Trans. Brit. Bryol. Soc. 4: 248. 1962 [1963].

Basionym: *Hypnum pumilum* Wilson, 1848.

R. tanneri Bizot ex Pócs, Fol. Hist. Nat. Mus. Matr. 4: 33. 1976-77 [1977].

Type: Tanzania. Mufindi Escarpment, *Jones & Pócs 6320/S*. Holotype: EGR; isotypes: DSM, herb. Bizot, herb. Jones.

Note: invalid, holotype not indicated (Article 37.1), in Rev. Bryol. Lichénol 40: 128. 1974.

Rhynchostegiopsis C. Müller, 1897.

R. carolae Crosby, Ann. Missouri Bot. Gard. 63: 373. f. 1-5. 1976 [1977].

Type: Costa Rica. San Jose: 13 km SE of El Empalme, 2600 m, *Crosby & Crosby 5836*. Holotype: MO; isotypes: BA, BM, CR, DUKE, H, MICH, NICH, U.

R. costaricensis H. Robinson & Griffin, Phytologia 30: 281. f. 1-9. 1975.

Type: Costa Rica. Alajuela: Parque Nacional Volcan Poas, *Griffin 92*. Holotype: US; isotype: FLAS.

Rhynchostegium Bruch & W. P. Schimper in B.S.G., 1852.
R. alopecuroides (Bridel) A. J. E. Smith, J. Bryol. 11: 606. 1981 [1982].
Basionym: *Hypnum rusciforme* var. *alopecuroides* Bridel, 1827.
R. argute-serratum E. B. Bartram, J. Wash. Acad. Sci. 26: 13. 1936.
Other use: *Steerecleus argute-serratus* (E. B. Bartram) H. Robinson, 1987.
R. calderi Vohra, Bull. Bot. Surv. India 22: 124. f. 58-61. 1980 [1982], "*calderii*."
Type: India. Lalkuti, Eastern Himalaya, 2-3 miles on Sonada-Mungpu Road, 2500 m, *Calder 1102A*. Holotype: CAL.
R. contortulum Tixier, Rev. Bryol. Lichénol. 34: 157. f. 18. 1966.
Type: Vietnam. Lac Ba Be, *Demange*, 1930. Herbarium not specified by author.
R. elegans (Bridel) Lindberg, 1863.
R. elegans var. *terrestre* Lindberg, Bot. Not. 1865: 39. 1865.
Replaced name: *Plagiothecium schimperi* Juratzka & Milde, 1862.
Other use: *Isopterygium borrerianum* var. *terrestre* (Lindberg) H. Crum, Steere & L. E. Anderson, 1965 [1966].
Note: new name, no priority outside of rank (Article 60).
R. jovet-astii Bizot, Acta Bot. Acad. Sci. Hung. 18: 25. f. 10: 1-7. 1973.
Type: Ethiopia. Addis Abeba Debre Zeit, 1800-2600 m, *Balazs 111*. Holotype: DI; isotype: EGR.
+*R. knowltonii* Britton, Bull. Torrey Bot. Club 26: 79. illustration. 1899.
Other use: *Archaeomnium knowltonii* (Britton) LaMotte, 1952, *Hypnites knowltonii* (Britton) N. G. Miller in R. J. Taylor & Leviton, 1980.
**R. lusitanicum* (W. P. Schimper) A. J. E. Smith, J. Bryol. 9: 393. 1977.
*illegitimate, later homonym (Article 64.1).
Basionym: *Hypnum lusitanicum* W. P. Schimper, 1876.
Earlier name: *Rhynchostegium lusitanicum* (Kindberg) Brotherus, 1925.
R. muelleri Jaeger, 1878.
R. muelleri var. *minus* (Dixon) Vohra, Rec. Bot. Surv. India 23: 319. 1983.
Basionym: *Oxyrrhynchium muelleri* var. *minus* Dixon, 1937.
R. murale (Hedwig) W. P. Schimper in B.S.G., 1852.
R. murale var. *aquaticum* Amann, Fl. Mouss. Suisse 2(Add. Rectific.): 4. 1918.
Note: not in Index Muscorum.
R. murale fo. *enervium* Grom, Acta Bot. Croat. 26-27: 251. 1967-68 [1968].
Type: Yugoslavia. Ad montem Jalovec in Alpibus Julicis, 2600 m, *Wraber 689*. Holotype: herb. Grom.
R. peruviense (R. S. Williams) Ochyra in Schultze-Motel & Menzel, Beih. Nova Hedwigia 88: 56. 1987.
Basionym: *Hygrohypnum peruviense* R. S. Williams, 1916.
R. pringlei Cardot, Rev. Bryol. 37: 70. 1910.
Other use: *Eurhynchium pringlei* (Cardot) H. Crum & L. E. Anderson, 1981.
R. pulchellum (Hedwig) H. Robinson, Bryologist 70: 38. 1967.
Basionym: *Hypnum pulchellum* Hedwig, 1801.
**R. pulchellum* var. *praecox* (Hedwig) Dixon ex McCleary & Redfearn, Trans. Illinois State Acad. Sci. 72: 33. 1979.
*invalid, basionym not cited (Article 33.2).

Rhynchostegium, continued.
R. robustum Buck, Beih. Nova Hedwigia 90: 340. 1988.
Type: Puerto Rico. Mount Morales, near Utuado, *Britton & Marble 840.* Holotype: NY; isotype: NY.
**R. rusciforme* (F. W. Weiss ex Bridel) W. P. Schimper in B.S.G., 1852.
*illegitimate, type of earlier name included (Article 63.1).
R. rusciforme var. *coreanum* Cardot, Bull. Soc. Bot. Genève 4: 381. 1912.
Other use: *Eurhynchium riparioides* var. *coreanum* (Cardot) Hong & Ando, 1959, *Platyhypnidium riparioides* var. *coreanum* (Cardot) Wijk & Margadant, 1965.
R. semiscabrum (E. B. Bartram) H. Robinson, Bryologist 70: 38. 1967.
Basionym: *Eurhynchium semiscabrum* E. B. Bartram, 1946.
R. subrectocarpum (Dixon) Vohra, Bull. Bot. Surv. India 21: 171. 1979 [1981].
Basionym: *Brachythecium subrectocarpum* Dixon, 1938.
R. tenuinerve Cardot, Bull. Soc. Bot. Genève, ser. 2, 4: 381. 1912.
Other use: *Eurhynchium tenuinerve* (Cardot) Iwatsuki & Noguchi, 1973.
R. validum (Herzog) Ochyra in Schultze-Motel & Menzel, Beih. Nova Hedwigia 88: 57. 1987.
Basionym: *Hygrohypnum validum* Herzog, 1916.

Rhytidiadelphus (Limpricht) Warnstorf, 1906.
**R. brevirostris* (Schwägrichen) Nyholm, Ill. Moss Fl. Fennoscandia. II. Musci 614. 1965.
*invalid, basionym not cited (Article 33.2).
R. japonicus (Reimers in Reimers & Sakurai) T. Koponen, Hikobia 6: 19. 1971.
Basionym: *Rhytidiadelphus squarrosus* subsp. *japonicus* Reimers in Reimers & Sakurai, 1931.
R. squarrosus (Hedwig) Warnstorf, 1906.
R. squarrosus subsp. *japonicus* Reimers in Reimers & Sakurai, Bot. Jahrb. Syst. 64: 559. 1931.
Other use: *Rhytidiadelphus japonicus* (Reimers in Reimers & Sakurai) T. Koponen, 1971.
R. subpinnatus (Lindberg) T. Koponen, Hikobia 6: 19. 1971.
Basionym: *Hylocomium subpinnatum* Lindberg, 1867.

Richardsiopsis Ochyra, J. Bryol. 14: 111. 1986.
Type: *Sciaromium lacustre* Herzog & Richards, *R. laustris* (Herzog & Richards) Ochyra, holotype.
Original placement: Donrichardsiaceae.
R. lacustris (Herzog & Richards) Ochyra, J. Bryol. 14: 113. 1986.
Basionym: *Sciaromium lacustre* Herzog & Richards, 1984.

Rigodiadelphus Dixon, 1936.
R. arcuatus (Noguchi) Noguchi, Misc. Bryol. Lichenol. 6: 95. 1973.
Basionym: *Neolescuraea arcuata* Noguchi, 1972.

Rigodiadelphus, continued.
R. robustus (Lindberg) Noguchi, Misc. Bryol. Lichenol. 6: 95. 1973.
Basionym: *Lescuraea robusta* Lindberg, 1872.

Rigodium Kunze ex Schwägrichen, 1844 [1845].
R. pallidum Sehnem, Pesquisas, Bot. 30: 38. pl. 12: d. 1976.
Type: Brazil. Rio Grande do Sul: Sao Francisco de Paula, Taimbe, 900 m, *Sehnem 7367*. Herbarium not specified by author.
R. riparium Sehnem, Pesquisas, Bot. 30: 35. pl. 11: c. 1976.
Type: Brazil. Rio Grande do Sul: Parque Reserva do Turvo, NW, 150 m, *Sehnem 12515*. Herbarium not specified by author.

Roellia Kindberg, 1897.
R. roellii (Brotherus in Röll) Andrews ex H. Crum, Bryologist 70: 107. 1967.
Basionym: *Mnium roellii* Brotherus in Röll, 1890.
Note: invalid, cited as synonym (Article 34.1), in Andrews in Grout, Moss Fl. N. Amer. 2: 240. 1940.

Rozea Bescherelle, 1872.
R. andrieuxii (C. Müller) Bescherelle, 1872.
R. andrieuxii var. *bourgaeana* (Bescherelle) Buck, Brittonia 33: 561. 1981.
Basionym: *Rozea bourgaeana* Bescherelle, 1872.
R. andrieuxii fo. *chrysea* (Bescherelle) Buck, Brittonia 33: 561. 1981.
Basionym: *Rozea chrysea* Bescherelle, 1872.
R. bourgaeana Bescherelle, Mém. Soc. Sci. Nat. Cherbourg 16: 242. 1872.
Other use: *Rozea andrieuxii* var. *bourgaeana* (Bescherelle) Buck, 1981, *Rozea chrysea* var. *bourgaeana* (Bescherelle) Buck & H. Crum, 1976 [1977].
R. chrysea Bescherelle, Mém. Soc. Sci. Nat. Cherbourg 16: 242. 1872.
Other use: *Rozea andrieuxii* fo. *chrysea* (Bescherelle) Buck, 1981.
R. chrysea fo. *andrieuxii* (C. Müller) Buck & H. Crum, Bryologist 79: 413. 1976 [1977].
Basionym: *Hypnum andrieuxii* C. Müller, 1851.
R. chrysea var. *bourgaeana* (Bescherelle) Buck & H. Crum, Bryologist 79: 415. 1976 [1977].
Basionym: *Rozea bourgaeana* Bescherelle, 1872.
R. kenoyeri Buck & H. Crum, Bryologist 79: 420. f. 45-47. 1976 [1977].
Type: India. Uttar Pradesh: Mussooree, *Kenoyer & Dudgeon 33*. Holotype: BM.
R. microcarpa Brotherus, 1929.
R. microcarpa fo. *elongata* Buck & H. Crum, Bryologist 79: 420. f. 42-44. 1976 [1977].
Type: China. Yunnan: in latere orient. montis Yulung prope Lidjiang (Likiang), *Rock*, 1936. Holotype: JE; isotype: BM.
R. roseorum R. S. Williams, J. Wash. Acad. Sci. 17: 495. f. b. 1927.
Other use: *Juratzkaea roseorum* (R. S. Williams) Buck, 1977, *Sciuroleskea roseorum* (R. S. Williams) Buck, 1981.

Rutenbergia Geheeb & Hampe ex Bescherelle, 1880.
R. usagarae Dixon, Bull. Misc. Inform. 6-7: 267. 1919.
Other use: *Neorutenbergia usagarae* (Dixon) Bizot & Pócs, 1974.
Note: not in Index Muscorum.

Sagenotortula Zander, Phytologia 65: 429. 1989.
Type: *Tortula quitoensis* Taylor, *S. quitensis* (Taylor) Zander, holotype.
Original placement: Pottiaceae.
S. quitoensis (Taylor) Zander, Phytologia 65: 430. 1989.
Basionym: *Tortula quitoensis* Taylor, 1847.

Saitoa Zander, Phytologia 65: 430. 1989.
Type: *Globulina peruviana* R. S. Williams, *S. peruviana* (R. S. Williams) Zander, holotype.
Original placement: Pottiaceae.
S. peruviana (R. S. Williams) Zander, Phytologia 65: 431. 1989.
Basionym: *Globulina peruviana* R. S. Williams, 1916.

+**Salairia** Neuberg, 1960.
+*S. confinis* Fefilova, Geol. Polez. Isokop. Sevoro-Vostoka Evrop. Chasti SSSR 1975: 39. pl. 1: f. 2: a-b, 3-4. 1976.
Type: U.S.S.R. N of Pre-Ural Depression, Kosiu R., Ufa Stage, *Inst. Geol. 306/124*. Holotype: SYKO.
+*S. longifolia* Neuberg, 1960.
+*S. singularis* Fefilova, Geol. Polez. Isokop. Sevoro-Vostoka Evrop. Chasti SSSR 1974: 40. pl. 1: f. 1, 5-6: a-b. 1976.
Type: U.S.S.R. N of Pre-Ural Depression, Iusel Creek, tributary of Kosin R., Ufa stage, *Inst. Geol. 306/165*. Holotype: SYKO.

Sanionia Loeske, 1907.
S. nivalis Hedenäs, Acta Bot. Fenn. 26: 411. f. 10-13. 1989.
Type: Sweden. Torne Lappmark, Jukkasjarvi, S of Nissusntjarro's peak, 1200-1300 m, *Hedenäs TL88-16*. Holotype: S; isotypes: G, LE, NY. Other indicated distribution: Finland, Norway (Svalbard, Jan Mayen), U.S.S.R.
S. uncinata (Hedwig) Loeske, 1907.
S. uncinata var. *symmetrica* (Renauld & Cardot) H. Crum & L. E. Anderson, Bryologist 92: 533. 1989.
Basionym: *Hypnum uncinatum* subsp. *symmetricum* Renauld & Cardot, 1888.

Sarconeurum Bryhn, 1902.
S. tortelloides S. W. Greene in S. W. Greene et al., Brit. Antarc. Surv. Sci. Rep. 64: 54. f. 28. 1970.
Type: Antarctica. Alexander Island, Eros Glacier, *Taylor 529*. Holotype: BIRM; isotypes: BM, LE, NY.
Other use: *Tortella fragilis* var. *tortelloides* (S. W. Greene in S. W. Greene et al.) Zander & Hoe, 1979, *Tortella tortelloides* (S. W. Greene in S. W. Greene et al.) H. Robinson, 1972.

Sarmentypnum Tuomikoski & T. Koponen, Ann. Bot. Fenn. 16: 223. 1979.
Type: *Hypnum sarmentosum* Wahlenberg, *S. sarmentosum* (Wahlenberg) Tuomikoski & T. Koponen, holotype.
Other use: *Calliergon* subgen. *Sarmentypnum* (Tuomikoski & T. Koponen) Zanten & Bartlett, 1986.
Original placement: Amblystegiaceae.
S. sarmentosum (Wahlenberg) Tuomikoski & T. Koponen, Ann. Bot. Fenn. 16: 223. 1979.
Basionym: *Hypnum sarmentosum* Wahlenberg, 1812.

Sasaokaea Brotherus, 1929.
S. aomoriensis (Paris) Kanda, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 16: 74. 1976 [1977].
Basionym: *Hypnum aomoriense* Paris, 1904.

Saviczia A. L. Abramova & I. I. Abramov, Novosti Sist. Niz. Rast. 1966: 298. 1966.
Type: *Plagiothecium obtusissimum* Brotherus, *S. obtusissima* (Brotherus) A. L. Abramova & I. I. Abramov, holotype.
Other use: *Plagiothecium* sect. *Saviczia* (A. L. Abramova & I. I. Abramov) Iwatsuki, 1970.
Original placement: Plagiotheciaceae.
S. obtusissima (Brotherus) A. L. Abramova & I. I. Abramov, Novosti Sist. Niz. Rast. 1966: 299. 1966.
Basionym: *Plagiothecium obtusissimum* Brotherus, 1921.

Schimperobryum Margadant, 1959.
S. splendidissimum (Montagne) Margadant, Acta Bot. Neerl. 8: 275. 1959.
Basionym: *Hookeria splendidissima* Montagne, 1835.
Note: not in Index Muscorum.
S. splendidissimum var. *perdentatum* Matteri, Revista Mus. Argent. Ci. Nat. "Bernardino Rivadavia," Ci. Nat., Bot. 4: 266. f. 7: 9-10. 1972.
Type: Chile. Aysen: Pt. Puyuhuapi, *Schwabe 11a*. Holotype: JE.

Schistidium Bridel, 1819 [1818].

S. angustissimum (Potier de la Varde) Ochyra in Ochyra & Pócs, Acta Bot. Acad. Sci. Hung. 28: 373. 1982.
Basionym: *Grimmia angustissima* Potier de la Varde, 1955 [1957].

S. antarctici (Cardot) Savicz-Ljubitskaya & Smirnova, Novosti Sist. Niz. Rast. 1965: 252. 1965.
Basionym: *Grimmia antarctici* Cardot, 1906.

S. apocarpum (Hedwig) Bruch & W. P. Schimper in B.S.G., 1845.

**S. apocarpum* fo. *epilosum* (Vaccari) Tosco, Webbia 28: 287. 1973.
*invalid, basionym not cited (Article 33.2).

S. apocarpum fo. *propaguliferum* Tosco, Webbia 28: 287. 1973.
Type: Italy. Gran Paradiso, Parco Nazionale, Valdi Cogne, Cogne, *Tosco*, 1954. Holotype: herb. Tosco.

S. apocarpum fo. *serrulatum* (Weinmann) Savicz-Ljubitskaya & Smirnova, Novosti Sist. Niz. Rast. 1968: 288. 1968.
Basionym: *Grimmia apocarpa* var. *serrulata* Weinmann, 1845.

S. apocarpum var. *taimyrense* (I. Borszczow & G. Borszczow) Savicz-Ljubitskaya & Smirnova, Novosti Sist. Niz. Rast. 1968: 288. 1968.
Basionym: *Grimmia apocarpa* var. *taimyrensis* I. Borszczow & G. Borszczow, 1856.

S. atrichum (C. Müller & Kindberg in Macoun) W. A. Weber, Phytologia 33: 106. 1976.
Basionym: *Grimmia atricha* C. Müller & Kindberg in Macoun, 1892.

S. celatum (Cardot) B. G. Bell, Brit. Antarct. Surv. Bull. 63: 86. 1984.
Basionym: *Grimmia celata* Cardot, 1906.

S. chrysoneurum (C. Müller) Ochyra in Ochyra, Vitt & D. G. Horton, Cryptog. Bryol. Lichénol. 7: 59. 1986.
Basionym: *Grimmia chrysoneura* C. Müller, 1883.

S. cinclidodonteum (C. Müller in Röll) B. Bremer, Lindbergia 6: 108. 1980.
Basionym: *Grimmia cinclidodontea* C. Müller in Röll, 1890.

S. confertum (Funck) Bruch & W. P. Schimper in B.S.G., 1845.

S. confertum var. *obtusifolium* Bruch & W. P. Schimper in B.S.G., Bryol. Eur. 3: 99. pl. 232: τ (fasc. 25-28. Monogr. 7. pl. 2: τ). 1845.
Other use: *Grimmia apocarpa* var. *obtusifolia* (Bruch & W. P. Schimper in B.S.G.) Margadant, 1972.

S. cribrodontium (Herzog) Ochyra in Ochyra & Pócs, Acta Bot. Acad. Sci. Hung. 28: 373. 1982.
Basionym: *Grimmia cribrodontia* Herzog, 1937.

S. dupretii (Thériot) W. A. Weber, Phytologia 33: 106. 1976.
Basionym: *Grimmia dupretii* Thériot, 1907.

S. falcatum (J. D. Hooker & Wilson) B. Bremer, Lindbergia 6: 110. 1980.
Basionym: *Grimmia falcata* J. D. Hooker & Wilson, 1844.
Note: invalid, basionym not cited (Article 33.2), in Zinderen Bakker et al., Marion & Prince Edward Isl., Musci 193. 1971.

S. helveticum (Schkuhr) Deguchi, Rev. Bryol. Lichénol. 45: 434. 1979.
Basionym: *Grimmia helvetica* Schkuhr, 1811.

Schistidium, continued.

S. holmenianum Steere & Brassard, Bryologist 79: 208. f. 1-16. 1976.
Type: U.S.A. Alaska: Cape Thompson, vinicity of Ogotoruk Cr., Chukchi Sea, *Steere 63-487*. Holotype: NY; isotypes: C, CANM, NFLD. Other indicated distribution: Canada (Northwest Territories), Greenland.

S. hyalinocuspidatum (C. Müller in Neumayer) B. G. Bell, Brit. Antarct. Surv. Bull. 63: 90. 1984.
Basionym: *Grimmia hyalinocuspidata* C. Müller in Neumayer, 1890.

S. liliputanum (C. Müller) Deguchi, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 16: 229. 1978 [1979].
Basionym: *Grimmia liliputana* C. Müller, 1898.

S. maritimum (Turner) Bruch & W. P. Schimper in B.S.G., 1845.

S. maritimum subsp. *piliferum* (I. Hagen) B. Bremer, Lindbergia 6: 15. 1980.
Basionym: *Grimmia maritima* var. *pilifera* I. Hagen, 1909 [1910].

S. obtusifolium Ireland & H. Crum, Bryologist 87: 371. f. 1-14. 1984 [1985].
Type: Canada. Quebec: Parc du Bic, Cap Enrage, pointe ouest, 48°22' N, 68°46' W, *Zoladeski & Lutzoni 11201*. Holotype: QED; isotype: CANM.
Other use: *Grimmia subanodon* Ochyra, 1987.

S. occidentale (E. Lawton) Churchill in Funk & D. R. Brooks, Advances Cladistics 143. 1981.
Basionym: *Grimmia occidentalis* E. Lawton, 1967.

S. papillosum Culmann in Amann, Fl. Mouss. Suisse 2: 386. 1918.
Other use: *Grimmia apocarpa* subsp. *papillosa* (Culmann in Amann) Sloover, 1967.

S. perichaetiale (Potier de la Varde) Ochyra in Ochyra & Pócs, Acta Bot. Acad. Sci. Hung. 28: 373. 1982.
Basionym: *Grimmia perichaetialis* Potier de la Varde, 1955 [1957].

S. perichaetiale var. *piliferum* (Demaret) Ochyra in Ochyra & Pócs, Acta Bot. Acad. Sci. Hung. 28: 373. 1982.
Basionym: *Grimmia perichaetialis* var. *pilifera* Demaret, 1956.

S. platyphyllum (Mitten) Kindberg, Eur. N. Amer. Bryin. 2: 232. 1897 [1898].
Note: redundant combination in Persson & Gjaerevoll, Kongel. Norske Vidensk. Selsk. Skr. (Trondheim) 1961(2): 23. 1961.

S. pulvinatum (Hedwig) Bridel, 1819 [1818].

S. pulvinatum var. *carpaticum* (Zmuda) Ochyra & Szmajda, Fragm. Florist. Geobot. 24: 142. 1978.
Basionym: *Schistidium sphaericum* var. *carpaticum* Zmuda, 1912.

S. rivulare (Bridel) Podpera, 1911.

S. rivulare subsp. *latifolium* (J. E. Zetterstedt) B. Bremer, Lindbergia 6: 9. 1980.
Basionym: *Grimmia apocarpa* fo. *latifolia* J. E. Zetterstedt, 1861.

S. rivulare var. *latifolium* (J. E. Zetterstedt) H. Crum & L. E. Anderson, Bryologist 92: 533. 1989.
Basionym: *Grimmia apocarpa* fo. *latifolia* J. E. Zetterstedt, 1861.

Schistidium, continued.

S. scabrifolium (Brotherus) H. A. Miller, H. O. Whittier & B. Whittier, Bryoph. Biblioth. 16: 249. 1978.
Basionym: *Grimmia scabrifolia* Brotherus, 1927.

S. scabripes (E. B. Bartram) Deguchi, Stud. Cryptog. S. Chile 27. 1984.
Basionym: *Grimmia scabripes* E. B. Bartram, 1946.

S. sphaericum (W. P. Schimper) A. Roth, 1904.
*illegitimate, type of earlier name included (Article 63.1).

S. sphaericum var. *carpaticum* Zmuda, Kosmos (Lvov) 37: 664. 1912.
Other use: *Schistidium pulvinatum* var. *carpaticum* (Zmuda) Ochyra & Szmajda, 1978.

S. steerei Ochyra, Mem. New York Bot. Gard. 45: 607. f. 1-21. 1987.
Type: Antarctica. South Shetland Islands: King George Island, Admiralty Bay, Ezcurra Inlet, 30 m, *Ochyra 946/80*. Holotype: KRAM; isotypes: AAS, ALTA, BM, CANM, F, H, NY. Paratype cited.

S. strictum (Turner) Loeske, 1908.
*invalid, cited as synonym (Article 34.1).

S. strictum fo. *hyperboreum* (H. Arnell) Savicz-Ljubitskaya & Smirnova, Novosti Sist. Niz. Rast. 1968: 288. 1968.
*invalid, species invalid (Article 43.1).

S. strictum fo. *muticum* (Melnichuk) Savicz-Ljubitskaya & Smirnova, Novosti Sist. Niz. Rast. 1968: 288. 1968.
*invalid, species invalid (Article 43.1).

S. stylostegium (C. Müller) Zanten in Zinderen Bakker, Winterbottom & R. A. Dyer, Marion & Prince Edward Islands, Musci 193. 1971.
*invalid, basionym not cited (Article 33.2).

S. subconfertum (Brotherus) Deguchi, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 16: 240. 1978 [1979].
Basionym: *Grimmia subconferta* Brotherus, 1929.

S. syntrichiaceum (C. Müller in Neumayer) B. G. Bell, Brit. Antarct. Surv. Bull. 63: 97. 1984.
Basionym: *Grimmia syntrichiacea* C. Müller in Neumayer, 1890.

S. tenerum (J. E. Zetterstedt) Nyholm, Ill. Moss Fl. Fennoscandia. II. Musci 775. 1969.
Basionym: *Grimmia tenera* J. E. Zetterstedt, 1876.
Note: invalid, basionym not cited (Article 33.2), in Ill. Moss Fl. Fennoscandia II. Musci 146. 1956.

S. tibetanum Lou Jian-shing & Wu Pan-cheng, Acta Phytotax. Sin. 18: 121. pl. 2: 8-15. 1980.
Type: China. Xizang: Baingoin, *Li 7601*. Holotype: PE.

S. urnulaceum (C. Müller in Neumayer) B. G. Bell, Brit. Antarct. Surv. Bull. 63: 99. 1984.
Basionym: *Grimmia urnulacea* C. Müller in Neumayer, 1890.

Schistomitrium Dozy & Molkenboer, 1846.
S. mucronatum C. Müller, Gen. Musc. Frond. 93. 1900.
Note: redescribed in A. Johnson, Gard. Bull. Straits Settle. 20: 323. 1964.
S. sparei Dixon ex A. Johnson, Gard. Bull. Straits Settlem. 20: 323. f. 2i, 6. 1964.
Type: Malaysia [Malay Peninsula]. Kedah Peak, 750 m, *Spare 2920*.
Herbarium not specified by author.

***Schistophyllum** Lindberg, 1878.
*illegitimate, type of earlier name included (Article 63.1).
Correct name: *Fissidens* Hedwig, 1801.
S. bryoides (Hedw.) Lindberg, 1879.
S. bryoides var. *subimpar* Lindberg in Lindberg & H. Arnell, Kongl. Svenska Vetensk. Acad. Handl. 23(10): 14. 1890.
Other use: *Fissidens bryoides* fo. *subimpar* (Lindberg in Lindberg & H. Arnell) Smirnova, 1969 [1970].
S. bryoides var. *varium* Lindberg in Lindberg & H. Arnell, Kongl. Svenska Vetensk. Acad. Handl. 23(10): 14. 1890.
Other use: *Fissidens bryoides* fo. *varius* (Lindberg in Lindberg & H. Arnell) Smirnova, 1969 [1970].
S. haraldii Lindberg, Bot. Not. 1887: 40. 1887.
Other use: *Fissidens tamarindifolius* var. *haraldii* (Lindberg) Bizot & Pierrot in Bizot, 1971-72 [1973].

Schizomitrium Bruch & W. P. Schimper in B.S.G., 1851.
S. sect. *Convergentes* (Demaret & Potier de la Varde ex Demaret) Ochyra in Ochyra & Pócs, Acta Bot. Acad. Sci. Hung. 28: 381. 1982.
Basionym: *Callicostella* sect. *Convergentes* Demaret & Potier de la Varde ex Demaret, 1965.
S. sect. *Divergentes* (Demaret & Potier de la Varde ex Demaret) Ochyra in Ochyra & Pócs, Acta Bot. Acad. Sci. Hung. 28: 381. 1982.
Basionym: *Callicostella* sect. *Divergentes* Demaret & Potier de la Varde ex Demaret, 1965.
S. sect. *Rectae* (Demaret & Potier de la Varde ex Demaret) Ochyra in Ochyra & Pócs, Acta Bot. Acad. Sci. Hung. 28: 381. 1982.
Basionym: *Callicostella* sect. *Rectae* Demaret & Potier de la Varde ex Demaret, 1965.
S. acutifolium (Thériot) Churchill, Bryologist 91: 120. 1988.
Basionym: *Callicostella acutifolia* Thériot, 1937.
S. africanum (Mitten) Ochyra in Ochyra & Pócs, Acta Bot. Acad. Sci. Hung. 28: 380. 1982.
Basionym: *Callicostella africana* Mitten, 1860.
S. applanatum (Brotherus & Bryhn in Bryhn) Ochyra in Ochyra & Pócs, Acta Bot. Acad. Sci. Hung. 28: 381. 1982.
Basionym: *Callicostella applanata* Brotherus & Bryhn in Bryhn, 1911.
S. aquaticum (E. B. Bartram in B. Willis) H. Crum, Bryologist 87: 208. 1984.
Basionym: *Callicostella aquatica* E. B. Bartram in B. Willis, 1939.

Schizomitrium, continued.

S. ascensionis (C. Müller) Ochyra in Ochyra & Pócs, Acta Bot. Acad. Sci. Hung. 28: 381. 1982.
Basionym: *Hookeria ascensionis* C. Müller, 1883.

S. attenuatum (C. Müller) Ochyra in Ochyra & Pócs, Acta Bot. Acad. Sci. Hung. 28: 381. 1982.
Basionym: *Hookeria attenuata* C. Müller, 1883.

S. beccarianum (Hampe) Manuel, Fed. Mus. J. 26: 161. 1981.
Basionym: *Hookeria beccariana* Hampe, 1872.

S. belangerianum (Bescherelle) Buck, Brittonia 39: 221. 1987.
Basionym: *Hookeria belangeriana* Bescherelle, 1876.

S. bernoullii (Hampe in C. Müller) F. D. Bowers, Phytologia 56: 492. 1985.
Basionym: *Hookeria bernoullii* Hampe in C. Müller, 1897.

S. bisexuale (Bescherelle) H. A. Miller, H. O. Whittier & B. Whittier, Bryoph. Biblioth. 16: 250. 1978.
Basionym: *Hookeria bisexualis* Bescherelle, 1873.

S. brevipes (Brotherus) Ochyra in Ochyra & Pócs, Acta Bot. Acad. Sci. Hung. 28: 381. 1982.
Basionym: *Hookeria brevipes* Brotherus, 1897.

S. caledonicum (Thériot) H. A. Miller, H. O. Whittier & B. Whittier, Bryoph. Biblioth. 16: 250. 1978.
Basionym: *Callicostella caledonica* Thériot, 1908.

S. campbellianum (Hampe) H. A. Miller, H. O. Whittier & B. Whittier, Bryoph. Biblioth. 16: 250. 1978.
Basionym: *Hookeria campbelliana* Hampe, 1874.

S. chevalieri (Brotherus in Corbière) Ochyra in Ochyra & Pócs, Acta Bot. Acad. Sci. Hung. 28: 381. 1982.
Basionym: *Callicostella chevalieri* Brotherus in Corbière, 1912.

S. chionophyllum (C. Müller) Ochyra in Ochyra & Pócs, Acta Bot. Acad. Sci. Hung. 28: 381. 1982.
Basionym: *Hookeria chionophylla* C. Müller, 1886.

S. chlorinum (Bescherelle) H. A. Miller, H. O. Whittier & B. Whittier, Bryoph. Biblioth. 16: 250. 1978.
Basionym: *Hookeria chlorina* Bescherelle, 1895 [1894].

S. ciliatum (W. P. Schimper in Bescherelle) F. D. Bowers, Phytologia 56: 492. 1985.
Basionym: *Hookeria ciliata* W. P. Schimper in Bescherelle, 1872.

S. circinatum (Brotherus) Buck, Candollea 40: 206. 1985.
Basionym: *Hookeria circinata* Brotherus, 1900.

S. cirrhosum (Hampe) Buck, Brittonia 39: 221. 1987.
Basionym: *Hookeria cirrhosa* Hampe, 1875.

S. colombicum (R. S. Williams) Buck & Steere, Moscosoa 2: 47. 1983.
Basionym: *Callicostella colombica* R. S. Williams, 1925.
Note: redundant combination in Crum, Bryologist 87: 208. 1984.

Schizomitrium, continued.

S. constrictum (C. Müller) Ochyra in Ochyra & Pócs, Acta Bot. Acad. Sci. Hung. 28: 381. 1982.
Basionym: *Hookeria constricta* C. Müller, 1886.

S. depressum (Hedwig) Buck & Steere, Moscosoa 2: 47. 1983.
Basionym: *Leskea depressa* Hedwig, 1801.
Note: redundant combination in Crum, Bryologist 87: 208. 1984.

S. emarginatulum (Brotherus in Corbière) Ochyra in Ochyra & Pócs, Acta Bot. Acad. Sci. Hung. 28: 381. 1982.
Basionym: *Callicostella emarginatula* Brotherus in Corbière, 1912.

S. erosotruncatum (Cardot) Ochyra in Ochyra & Pócs, Acta Bot. Acad. Sci. Hung. 28: 381. 1982.
Basionym: *Callicostella erosotruncata* Cardot, 1909.

S. fissidentellum (Bescherelle) Ochyra in Ochyra & Pócs, Acta Bot. Acad. Sci. Hung. 28: 381. 1982.
Basionym: *Hookeria fissidentella* Bescherelle, 1880.

S. frateri (Brotherus & Watts) H. A. Miller, H. O. Whittier & B. Whittier, Bryoph. Biblioth. 16: 250. 1978.
Basionym: *Callicostella frateri* Brotherus & Watts, 1915.

S. gabonense (Brotherus & Potier de la Varde & Potier de la Varde) Ochyra in Ochyra & Pócs, Acta Bot. Acad. Sci. Hung. 28: 381. 1982.
Basionym: *Callicostella gabonensis* Brotherus & Potier de la Varde & Potier de la Varde, 1925.

S. grossirete (E. B. Bartram in B. Willis) H. Crum, Bryologist 87: 208. 1984.
Basionym: *Callicostella grossiretis* E. B. Bartram in B. Willis, 1939.
Note: redundant combination in Florschütz-de Waard, Fl. Suriname 6(1): 324. 1986.

S. guatemalense (E. B. Bartram) Florschütz-de Waard, Fl. Suriname 6(1): 326. 1986, "*guatemalensis*."
Basionym: *Hookeriopsis guatemalensis* E. B. Bartram, 1946.

S. hahnianum (Bescherelle) H. Crum, Bryologist 87: 208. 1984.
Basionym: *Hookeria hahniana* Bescherelle, 1876.

S. hondurense (H. Crum) H. Crum, Bryologist 87: 208. 1984.
Basionym: *Callicostella hondurensis* H. Crum, 1952.

S. lacerans (C. Müller) Ochyra in Ochyra & Pócs, Acta Bot. Acad. Sci. Hung. 28: 382. 1982.
Basionym: *Hookeria lacerans* C. Müller, 1876.

S. laeviusculum (Mitten) Ochyra in Ochyra & Pócs, Acta Bot. Acad. Sci. Hung. 28: 382. 1982.
Basionym: *Callicostella laeviuscula* Mitten, 1879.

S. leptocladulum (C. Müller ex Brotherus) Ochyra in Ochyra & Pócs, Acta Bot. Acad. Sci. Hung. 28: 382. 1982.
Basionym: *Hookeria leptocladula* C. Müller ex Brotherus, 1897.

S. maclaudii (Paris & Brotherus in Paris) Ochyra in Ochyra & Pócs, Acta Bot. Acad. Sci. Hung. 28: 382. 1982.
Basionym: *Hookeria maclaudii* Paris & Brotherus in Paris, 1903.

Schizomitrium, continued.

S. martianum (Hornschuch) Crosby, Taxon 24: 355. 1975.
Basionym: *Hookeria martiana* Hornschuch, 1840.

S. melanotheca (Duby ex Bescherelle) H. A. Miller, H. O. Whittier & B. Whittier, Bryoph. Biblioth. 16: 250. 1978.
Basionym: *Hookeria melanotheca* Duby ex Bescherelle, 1873.

S. melanotheca var. *scabrisetum* (Thériot) H. A. Miller, H. O. Whittier & B. Whittier, Bryoph. Biblioth. 16: 250. 1978.
Basionym: *Callicostella melanotheca* var. *scabriseta* Thériot, 1910.

S. merkelii (Hornschuch) Florschütz-de Waard, Fl. Suriname 6(1): 322. 1986.
Basionym: *Hookeria merkelii* Hornschuch, 1840.

S. mexicanum (H. Robinson & W. H. Welch in W. H. Welch) F. D. Bowers, Phytologia 56: 492. 1985.
Basionym: *Callicostella mexicana* H. Robinson & W. H. Welch in W. H. Welch, 1966.

S. nukahivense (Bescherelle) H. A. Miller, H. O. Whittier & B. Whittier, Bryoph. Biblioth. 16: 250. 1978, "*nakahivensis*."
Basionym: *Hookeria nukahivensis* Bescherelle, 1895 [1894].

S. oerstedianum (C. Müller) H. Crum, Bryologist 87: 208. 1984.
Basionym: *Hookeria oerstediana* C. Müller, 1851.

S. pallidum (Hornschuch in C. Martius) H. Crum & L. E. Anderson, Mosses E. N. Amer. 2: 822. 1981.
Basionym: *Hookeria pallida* Hornschuch in C. Martius, 1840.

S. papillatum (Montagne) Sullivant, 1859.

S. papillatum var. *brevifolium* (Fleischer) H. A. Miller, H. O. Whittier & B. Whittier, Bryoph. Biblioth. 16: 251. 1978.
Basionym: *Callicostella papillata* var. *brevifolia* Fleischer, 1908.

S. papillatum var. *longifolium* (Fleischer) H. A. Miller, H. O. Whittier & B. Whittier, Bryoph. Biblioth. 16: 251. 1978.
Basionym: *Callicostella papillata* fo. *longifolia* Fleischer, 1908.

S. papillosulum (Brotherus & Potier de la Varde in Potier de la Varde) Ochyra in Ochyra & Pócs, Acta Bot. Acad. Sci. Hung. 28: 382. 1982.
Basionym: *Callicostella papillosula* Brotherus & Potier de la Varde in Potier de la Varde, 1925.

S. parvicellulatum (Demaret & Potier de la Varde) Ochyra in Ochyra & Pócs, Acta Bot. Acad. Sci. Hung. 28: 382. 1982, "*parvocellulatum*."
Basionym: *Callicostella parvicellulata* Demaret & Potier de la Varde, 1952.

S. perpapillatum (Brotherus & Potier de la Varde in Potier de la Varde) Ochyra in Ochyra & Pócs, Acta Bot. Acad. Sci. Hung. 28: 382. 1982.
Basionym: *Callicostella perpapillata* Brotherus & Potier de la Varde in Potier de la Varde, 1925.

S. perrotii (Renauld & Cardot ex Paris) Ochyra in Ochyra & Pócs, Acta Bot. Acad. Sci. Hung. 28: 382. 1982.
Basionym: *Hookeria perrotii* Renauld & Cardot ex Paris, 1900.

S. plicatulum (Thériot) Churchill, Bryologist 91: 120. 1988.
Basionym: *Callicostella plicatula* Thériot, 1937.

Schizomitrium, continued.

S. prabaktianum (C. Müller) H. A. Miller, H. O. Whittier & B. Whittier, Bryoph. Biblioth. 16: 251. 1978.
Basionym: *Hookeria prabaktiana* C. Müller, 1851.

S. pusillum (Brotherus ex Demaret & Potier de la Varde) Ochyra in Ochyra & Pócs, Acta Bot. Acad. Sci. Hung. 28: 382. 1982.
Basionym: *Callicostella pusilla* Brotherus ex Demaret & Potier de la Varde, 1952.

S. radicans (Bescherelle) H. Crum, Bryologist 87: 208. 1984.
Basionym: *Hookeria radicans* Bescherelle, 1876.

S. rivulare (Mitten) H. Crum, Bryologist 87: 208. 1984.
Basionym: *Hookeria rivularis* Mitten, 1869.

S. rufescens (Mitten) Florschütz-de Waard, Fl. Suriname 6(1): 328. 1986.
Basionym: *Hookeria rufescens* Mitten, 1869.

S. salaziae (Bescherelle) Ochyra in Ochyra & Pócs, Acta Bot. Acad. Sci. Hung. 28: 382. 1982.
Basionym: *Hookeria salaziae* Bescherelle, 1880.

S. seychellense (Bescherelle) Ochyra in Ochyra & Pócs, Acta Bot. Acad. Sci. Hung. 28: 382. 1982.
Basionym: *Hookeria seychellensis* Bescherelle, 1880.

S. subdepressum (Bescherelle) Buck, Candollea 40: 206. 1985.
Basionym: *Hookeria subdepressa* Bescherelle, 1891.

S. subemarginatulum (Brotherus & Potier de la Varde in Potier de la Varde) Ochyra in Ochyra & Pócs, Acta Bot. Acad. Sci. Hung. 28: 382. 1982.
Basionym: *Callicostella subemarginatula* Brotherus & Potier de la Varde in Potier de la Varde, 1925.

S. subfissidentoides (W. P. Schimper ex Bescherelle) H. Crum, Bryologist 87: 208. 1984.
Basionym: *Hookeria subfissidentoides* W. P. Schimper ex Bescherelle, 1876.

S. subsecundum (Mitten) Buck, Brittonia 39: 221. 1987.
Basionym: *Hookeria subsecunda* Mitten, 1869.

S. tenerrimum (E. B. Bartram) H. Crum, Bryologist 87: 208. 1984.
Basionym: *Callicostella tenerrima* E. B. Bartram, 1951 [1952].

S. torrentium (Brotherus) Buck, Candollea 40: 206. 1985.
Basionym: *Hookeria torrentium* Brotherus, 1900.

S. triste (C. Müller) Ochyra in Ochyra & Pócs, Acta Bot. Acad. Sci. Hung. 28: 382. 1982.
Basionym: *Hookeria tristis* C. Müller, 1899.

S. usambaricum (Brotherus) Ochyra in Ochyra & Pócs, Acta Bot. Acad. Sci. Hung. 28: 382. 1982.
Basionym: *Hookeria usambarica* Brotherus, 1894.

S. vatteri (E. B. Bartram) H. Crum, Bryologist 87: 209. 1984.
Basionym: *Callicostella vatteri* E. B. Bartram, 1946.

S. vesiculatum (C. Müller) H. A. Miller, H. O. Whittier & B. Whittier, Bryoph. Biblioth. 16: 251. 1978.
Basionym: *Hookeria vesiculata* C. Müller, 1874.

Schizymenium Harvey in W. J. Hooker, 1840.

S. ampullaceum (Brotherus) A. J. Shaw, Bryologist 88: 29. 1985.
Basionym: *Mielichhoferia ampullacea* Brotherus, 1920.

S. andinum (Sullivant) A. J. Shaw, Bryologist 88: 29. 1985.
Basionym: *Mielichhoferia andina* Sullivant, 1859.

S. austrogeorgicum (C. Müller in Neumayer) A. J. Shaw, Bryologist 88: 30. 1985.
Basionym: *Mielichhoferia austrogeorgica* C. Müller in Neumayer, 1890.

S. basilare (Bruch & W. P. Schimper ex C. Müller) A. J. Shaw, Bryologist 88: 29. 1985, "*basilaris*."
Basionym: *Mielichhoferia basilaris* Bruch & W. P. Schimper ex C. Müller, 1849.

S. bogotense (Hampe) A. J. Shaw, Bryologist 88: 29. 1985.
Basionym: *Mielichhoferia bogotensis* Hampe, 1865.

S. bolivianum (W. P. Schimper ex C. Müller) A. J. Shaw, Bryologist 88: 29. 1985.
Basionym: *Mielichhoferia boliviana* W. P. Schimper ex C. Müller, 1897.

S. brevicaule (Hornschuch) A. J. Shaw & Churchill in Churchill, Trop. Bryol. 1: 111. 1989, "*brevicaulis*."
Basionym: *Mielichhoferia brevicaulis* Hornschuch, 1840.

S. campylocarpum (Arnott & W. J. Hooker in W. J. Hooker) A. J. Shaw, Bryologist 88: 29. 1985.
Basionym: *Weissia campylocarpa* Arnott & W. J. Hooker in W. J. Hooker, 1837.

S. clavellatum (Mitten) A. J. Shaw, Bryologist 88: 29. 1985.
Basionym: *Mielichhoferia clavellata* Mitten, 1869.

S. commixtum (Thériot) A. J. Shaw, Bryologist 88: 29. 1985.
Basionym: *Mielichhoferia commixta* Thériot, 1925.

S. costaricense (A. J. Shaw & H. Crum) A. J. Shaw, Bryologist 88: 29. 1985.
Basionym: *Synthetodontium costaricense* A. J. Shaw & H. Crum, 1982.

S. cratericola (Brotherus in Mildbraed) Ochyra & A. J. Sharp, J. Hattori Bot. Lab. 65: 345. 1988.
Basionym: *Mielichhoferia cratericola* Brotherus in Mildbraed, 1910.

S. cygnicollum (W. P. Schimper ex C. Müller) A. J. Shaw, Bryologist 88: 30. 1985.
Basionym: *Mielichhoferia cygnicolla* W. P. Schimper ex C. Müller, 1897.

S. decurrens (C. Müller) A. J. Shaw, Bryologist 88: 29. 1985.
Basionym: *Mielichhoferia decurrens* C. Müller, 1897.

S. dolichothecum (Herzog) A. J. Shaw & Churchill in Churchill, Trop. Bryol. 1: 111. 1989.
Basionym: *Mielichhoferia dolichotheca* Herzog, 1935 [1934].

S. fulvonitens (Cardot & Brotherus) A. J. Shaw, Bryologist 88: 30. 1985.
Basionym: *Mielichhoferia fulvonitens* Cardot & Brotherus, 1923.

S. fusiferum (Mitten) A. J. Shaw, Bryologist 88: 29. 1985.
Basionym: *Bryum fusiferum* Mitten, 1869.

Schizymenium, continued.

S. gracilisetum (Hampe) A. J. Shaw, Bryologist 88: 29. 1985.
Basionym: *Leptochlaena graciliseta* Hampe, 1863.

S. hariotii (Thériot) A. J. Shaw, Bryologist 88: 29. 1985.
Basionym: *Mielichhoferia hariotii* Thériot, 1924.

S. hymenodontum (Dixon) A. J. Shaw, Bryologist 88: 29. 1985.
Basionym: *Mielichhoferia hymenodonta* Dixon, 1934.

S. hymenostomum (Bruch & W. P. Schimper ex C. Müller) A. J. Shaw, Bryologist 88: 29. 1985.
Basionym: *Mielichhoferia hymenostoma* Bruch & W. P. Schimper ex C. Müller, 1848.

S. javanicum (Brotherus ex Fleischer) A. J. Shaw, Bryologist 88: 29. 1985.
Basionym: *Mielichhoferia javanica* Brotherus ex Fleischer, 1904.

S. landii (Cardot) A. J. Shaw, Bryologist 88: 29. 1985.
Basionym: *Mielichhoferia landii* Cardot, 1911.

S. latifolium (Herzog) A. J. Shaw, Bryologist 88: 30. 1985.
Basionym: *Mielichhoferia latifolia* Herzog, 1935 [1934].

S. lindigii (Hampe) A. J. Shaw, Bryologist 88: 29. 1985.
Basionym: *Mielichhoferia lindigii* Hampe, 1862.

S. linearicaule (C. Müller) A. J. Shaw, Bryologist 88: 29. 1985, "*linearicaulis*."
Basionym: *Mielichhoferia linearicaulis* C. Müller, 1898.

S. madagassum (Cardot in Grandidier) A. J. Shaw, Bryologist 88: 29. 1985.
Basionym: *Mielichhoferia madagassa* Cardot in Grandidier, 1915.

S. mildbraedii (Brotherus in Mildbraed) A. J. Shaw, Bryologist 88: 29. 1985.
Basionym: *Mielichhoferia mildbraedii* Brotherus in Mildbraed, 1910.

S. multiflorum (E. B. Bartram) A. J. Shaw, Bryologist 88: 29. 1985.
Basionym: *Mielichhoferia multiflora* E. B. Bartram, 1946.

S. nealiae (E. B. Bartram) A. J. Shaw, Bryologist 88: 29. 1985.
Basionym: *Mielichhoferia nealiae* E. B. Bartram, 1939.

S. pectinatum (C. Müller) A. J. Shaw & Churchill in Churchill, Trop. Bryol. 1: 111. 1989.
Basionym: *Mielichhoferia pectinata* C. Müller, 1875.

S. pohlioideum (C. Müller) A. J. Shaw, Bryologist 88: 29. 1985.
Basionym: *Mielichhoferia pohlioidea* C. Müller, 1879.

S. pontevedrense (Luisier) C. Casas et al., Anales Jard. Bot. Madrid 46: 608. 1989, "*pontevedrensis*."
Basionym: *Mielichhoferia pontevedrensis* Luisier, 1927.

S. pseudopohlia A. J. Shaw, Mem. New York Bot. Gard. 45: 685. f. 1-11. 1987.
Type: Ecuador. Cotopaxi: Parque Nacional Cotopaxi, *Balslev 2528*. Holotype: NY. Other indicated distribution: Colombia.

S. pulchrum (Brotherus in Felippone) A. J. Shaw, Bryologist 88: 29. 1985.
Basionym: *Mielichhoferia pulchra* Brotherus in Felippone, 1909.

S. pulvinatum (C. Müller) A. J. Shaw, Bryologist 88: 29. 1985.
Basionym: *Mielichhoferia pulvinata* C. Müller, 1896.

S. pusillum (J. D. Hooker & Wilson) A. J. Shaw, Bryologist 88: 30. 1985.
Basionym: *Leptostomum pusillum* J. D. Hooker & Wilson, 1844.

Schizymenium, continued.
S. schiedianum (C. Müller) A. J. Shaw, Bryologist 88: 30. 1985.
Basionym: *Mielichhoferia schiedeana* C. Müller, 1848.
S. schimperi A. J. Shaw, Bryologist 88: 30. 1985.
Replaced name: *Mielichhoferia sericea* W. P. Schimper ex C. Müller, 1897.
Blocking name: *Mielichhoferia sericea* Dozy & Molkenboer, 1844.
S. serratum (Cardot & Herzog in Cardot) A. J. Shaw, Bryologist 88: 29. 1985.
Basionym: *Mielichhoferia serrata* Cardot & Herzog in Cardot, 1911.
S. skottsbergii (Cardot & Brotherus) A. J. Shaw, Bryologist 88: 29. 1985.
Basionym: *Mielichhoferia skottsbergii* Cardot & Brotherus, 1923.
S. subglobosum (R. S. Williams) A. J. Shaw, Bryologist 88: 29. 1985.
Basionym: *Mielichhoferia subglobosa* R. S. Williams, 1910.
S. submacrodontum (Brotherus in Herzog) A. J. Shaw, Bryologist 88: 29. 1985.
Basionym: *Mielichhoferia submacrodonta* Brotherus in Herzog, 1916.
S. subobliquum (Hampe) A. J. Shaw & Churchill in Churchill, Trop. Bryol. 1: 111. 1989.
Basionym: *Mielichhoferia subobliqua* Hampe, 1869.
S. subpohlioideum (Brotherus) A. J. Shaw, Bryologist 88: 29. 1985.
Basionym: *Mielichhoferia subpohlioidea* Brotherus, 1918.
S. weberbaueri (Brotherus) A. J. Shaw, Bryologist 88: 29. 1985.
Basionym: *Mielichhoferia weberbaueri* Brotherus, 1920.

Schlotheimia Bridel, 1812.
S. gracillima Bescherelle, Bull. Soc. Bot. France 32: lxi. 1885.
Other use: *Macrocoma gracillima* (Bescherelle) Vitt, 1980 [1981].
S. perserrata Sehnem, Pesquisas, Bot. 32: 35. pl. 10: b (pp. 74-75). 1978.
Type: Brazil. Rio Grande do Sul: Caxias do Sul, Vila Oliva, 750 m, *Sehnem 2582*. Herbarium not specified by author.
S. pulchella Hornschuch, Horae Phys. Berol. 61. f. 12. 1820.
Other use: *Macrocoma pulchella* (Hornschuch) Vitt, 1973.

Schoenobryum Dozy & Molkenboer, 1848.
S. blumenauianum (Hampe) Manuel, Bryologist 80: 523. 1977.
Basionym: *Cryphaea blumenauiana* Hampe, 1879.
S. caripense (C. Müller) Manuel, Bryologist 80: 523. 1977.
Basionym: *Cryphaea caripensis* C. Müller, 1847 [1846].
S. coffeae (C. Müller) Manuel, Bryologist 80: 523. 1977.
Basionym: *Cryphaea coffeae* C. Müller, 1898.
S. concavifolium (Griffith) Gangulee, Mosses E. India 5: 1209. 1976.
Basionym: *Orthotrichum concavifolium* Griffith, 1842.
S. evanescens (C. Müller) Manuel, Bryologist 80: 523. 1977.
Basionym: *Cryphaea evanescens* C. Müller, 1901.
S. gardneri (Mitten) Manuel, Bryologist 80: 523. 1977.
Basionym: *Cryphaea gardneri* Mitten, 1859.
S. henschenii (C. Müller ex Ångström) Manuel, Bryologist 80: 523. 1977.
Basionym: *Cryphaea henschenii* C. Müller ex Ångström, 1876.

Schoenobryum, continued.

S. julaceum Dozy & Molkenboer, 1848.

S. julaceum var. *costaricense* (Renauld & Cardot) Manuel, Bryologist 80: 523. 1977.

Basionym: *Acrocryphaea julacea* var. *costaricensis* Renauld & Cardot, 1893 [1894].

S. kunertii (C. Müller) Manuel, Bryologist 80: 523. 1977.

Basionym: *Cryphaea kunertii* C. Müller, 1901.

S. latifolium (Brotherus & Potier de la Varde in Potier de la Varde) Manuel, Bryologist 80: 523. 1977.

Basionym: *Acrocryphaea latifolia* Brotherus & Potier de la Varde in Potier de la Varde, 1925.

S. latifolium var. *microsporum* (Potier de la Varde) Manuel, Bryologist 80: 523. 1977.

Basionym: *Acrocryphaea latifolia* var. *microspora* Potier de la Varde, 1934.

S. leiboldii (C. Müller) Manuel, Bryologist 80: 523. 1977.

Basionym: *Cryphaea leiboldii* C. Müller, 1844 [1845].

S. leptopteris (C. Müller) Manuel, Bryologist 80: 523. 1977.

Basionym: *Cryphaea leptopteris* C. Müller, 1901.

S. madagassum (C. Müller in Bechenau) Manuel, Bryologist 80: 523. 1977.

Basionym: *Cryphaea madagassa* C. Müller in Bechenau, 1881.

S. mittenii (Jaeger) Manuel, J. Hattori Bot. Lab. 49: 134. 1981.

Basionym: *Cryphaea mittenii* Jaeger, 1876.

S. paraguense (Bescherelle) Manuel, Bryologist 80: 523. 1977.

Basionym: *Acrocryphaea paraguensis* Bescherelle, 1891.

S. plicatulum (Dixon & Thériot) Manuel, Bryologist 80: 523. 1977.

Basionym: *Acrocryphaea plicatula* Dixon & Thériot, 1942.

S. robustum (Brotherus in Mildbraed) Manuel, Bryologist 80: 523. 1977.

Basionym: *Acrocryphaea robusta* Brotherus in Mildbraed, 1910.

S. rubicaule (Mitten) Manuel, Bryologist 80: 523. 1977.

Basionym: *Cryphaea rubricaulis* Mitten, 1869.

S. subintegrum (Renauld & Cardot in Renauld) Manuel, Bryologist 80: 524. 1977.

Basionym: *Cryphaea subintegra* Renauld & Cardot in Renauld, 1891.

S. subintegrum var. *idanreense* (Richards & S. R. Edwards) Manuel, Bryologist 80: 524. 1977.

Basionym: *Acrocryphaea subintegra* var. *idanreensis* Richards & S. R. Edwards, 1972.

S. subrobustum (Brotherus & Potier de la Varde in Potier de la Varde) Manuel, Bryologist 80: 524. 1977.

Basionym: *Acrocryphaea subrobusta* Brotherus & Potier de la Varde in Potier de la Varde, 1925.

S. tisserantii (Thériot & Potier de la Varde in Potier de la Varde) Manuel, Bryologist 80: 524. 1977.

Basionym: *Acrocryphaea tisserantii* Thériot & Potier de la Varde in Potier de la Varde, 1925.

Schoenobryum, continued.
S. welwitschii (Duby) Manuel, Bryologist 80: 524. 1977.
Basionym: *Cryphaea welwitschii* Duby, 1871.

Schraderella C. Müller, 1879.
S. novoguinensis Noguchi, J. Hattori Bot. Lab. 10: 20. f. 9: 1-9. 1953.
Other use: *Clastobryum novo-guinense* (Noguchi) Tixier, 1977.
S. pungens C. Müller, Linnaea 42: 501. 1879.
Other use: *Clastobryum pungens* (C. Müller) Tixier, 1977.

Schraderobryum Fleischer, 1923.
S. ulicinum (Mitten) Fleischer, 1923.
S. ulicinum var. *exiguum* (Brotherus) Wijk & Margadant, Taxon 14: 198. 1965.
Basionym: *Sematophyllum ulicinum* var. *exiguum* Brotherus, 1926.

Schwetschkea C. Müller, 1875.
S. capillifolia Dixon in Herzog, Repert. Spec. Nov. Regni Veg. 38: 101. 1935.
Note: not in Index Muscorum.
S. doii Sakurai, Bot. Mag. (Tokyo) 46: 498. 1932.
Other use: *Helicodontium doii* (Sakurai) Taoda, 1977.
S. formosica Cardot, Beih. Bot. Centralbl. 19(2): 125. f. 21. 1905 [1906].
Other use: *Helicodontium formosicum* (Cardot) Buck, 1980.
S. guatemaliensis C. Müller, Linnaea 39: 434. 1875.
Other use: *Fabronidium guatemaliense* (C. Müller) Buck, 1981.
S. indica Brotherus, Rec. Bot. Surv. India 1(12): 328. 1899.
Other use: *Macgregorella indica* (Brotherus) Buck, 1980.
S. kiusiana Sakurai, Bot. Mag. (Tokyo) 46: 377. 1932.
Other use: *Helicodontium kiusianum* (Sakurai) Taoda, 1977.
S. peracuminata Demaret & J. Leroy, Explor. Parc Natl. Albert, Mission Lebrun 6: 45. f. 50-54. 1944.
Note: not in Index Muscorum.

Schwetschkeopsis Brotherus in Engler & Prantl, 1907.
S. elongata (Dixon & Potier de la Varde in Potier de la Varde) Buck & H. Crum, J. Hattori Bot. Lab. 44: 366. 1978.
Basionym: *Trachyphyllum elongatum* Dixon & Potier de la Varde in Potier de la Varde, 1925.
S. neckeroides (Griffith) Vohra, Rec. Bot. Surv. India 23: 19. 1983.
Basionym: *Pterogonium neckeroides* Griffith, 1843.
**S. subulata* Chen Pan-chieh ex Wu Pan-cheng, Lou Jian-shing & Wang Mei-zhi, Gloss. Terms Names Bryoph. 111. 1984.
*invalid, no Latin description (Article 36.1).

Sciadocladus Lindberg ex Kindberg, Bot. Centralbl. 77: 393. 1909.
Other use: *Hypnodendron* sect. *Sciadocladus* (Lindberg ex Kindberg) Touw, 1971.

Sciadocladus, continued.
S. celebensis Dixon, Ann. Bryol. 7: 28. 1934.
Other use: *Hypnodendron auricomum* subsp. *celebense* (Dixon) Touw, 1971.

+**Sciaromiadelphus** A. L. Abramova & I. I. Abramov, Novosti Sist. Niz. Rast. 4: 334. 1967.
Type: *S. longifolius* A. L. Abramova & I. I. Abramov, holotype.
Original placement: not indicated by authors.
+*S. longifolius* A. L. Abramova & I. I. Abramov, Novosti Sist. Niz. Rast. 4: 334. f. 2. [pl. 1:] 3-4. 1967.
Type: U.S.S.R. Monchady, Bashkiria, Pleiocene, *Jakhimovich*. Holotype: LE.
Other use: *Sciaromiella longifolia* (A. L. Abramova & I. I. Abramov) Ochyra, 1986.

Sciaromiella Ochyra, J. Hattori Bot. Lab. 61: 317. 1986.
Type: *Sciaromium bartlettii* Crum & Anderson, *S. bartlettii* (Crum & Anderson) Ochyra, holotype.
Original placement: Donrichardsiaceae.
S. bartlettii (H. Crum & Steere) Ochyra, J. Hattori Bot. Lab. 61: 317. 1986.
Basionym: *Sciaromium bartlettii* H. Crum & Steere, 1959.
S. longifolia (A. L. Abramova & I. I. Abramov) Ochyra, J. Hattori Bot. Lab. 61: 317. 1986, "*longifolius*."
Basionym: *Sciaromiadelphus longifolius* A. L. Abramova & I. I. Abramov, 1967.

Sciaromium (Mitten) Mitten, 1869.
S. bartlettii H. Crum & Steere, Amer. Midl. Naturalist 60: 40. f. 95-103. 1959.
Other use: *Limbella bartlettii* (H. Crum & Steere) Buck, 1988, *Sciaromiella bartlettii* (H. Crum & Steere) Ochyra, 1986.
Original placement: sect. *Limbidium*.
S. flavidulum Dusén, Bot. Not. 1905: 310. 1905.
Other use: *Eurhynchium flavidulum* (Dusén) Ochyra, 1987.
S. fryei R. S. Williams, Bryologist 35: 52. f. 5. 1933.
Other use: *Limbella fryei* (R. S. Williams) Ochyra, 1986.
S. holoneuron Herzog, Biblioth. Bot. 87: 144. f. 66. 1916.
Other use: *Koponenia holoneuron* (Herzog) Ochyra, 1985.
S. lacustre Herzog & Richards, J. Bryol. 13: 34. f. 1. 1984.
Type: Peru. Taman Cove: Lake Titicaca, on lake bottom 7 m deep, *Tutin 1098*. Holotype: BM.
Other use: *Richardsiopsis lacustris* (Herzog & Richards) Ochyra, 1986.
+*S. laxirete* A. L. Abramova & I. I. Abramov, Novosti Sist. Niz. Rast. 4: 333. f. 1. [pl. 1:] 1-2. 1967.
Type: U.S.S.R. Iglino Bashkiria, Pleiocene, *Jakhimovich*. Holotype: LE.
S. sikkimense Paris, Index Bryol. Suppl. 305. 1900.
Other use: *Handeliobryum sikkimense* (Paris) Ochyra, 1986.

Sciuroleskea Hampe ex Brotherus in Engler & Prantl, 1925.
S. roseorum (R. S. Williams) Buck, Brittonia 33: 562. 1981.
Basionym: *Rozea roseorum* R. S. Williams, 1927.

Sclerodontium Schwägrichen, 1824, rejected name.
S. clavinerve (C. Müller in Brotherus) H. Crum, Hikobia 9: 294. 1986.
Basionym: *Leucoloma clavinerve* C. Müller in Brotherus, 1893.
S. pallidum (W. J. Hooker) Schwägrichen, 1823.
S. pallidum subsp. *celebesiae* (Brotherus in Warburg) H. Crum, Hikobia 9: 291. 1986.
Basionym: *Leucoloma celebesiae* Brotherus in Warburg, 1899.
S. strictum Harvey in W. J. Hooker, Icon. Pl. Rar. 1: pl. 21: f. 2. 1837.
Other use: *Leucodon secundus* var. *strictus* (Harvey in W. J. Hooker) Akiyama, 1988.

Scleropodium Bruch & W. P. Schimper in B.S.G., 1853.
**S. caespitosum* W. P. Schimper in B.S.G., 1853.
*illegitimate, type of earlier name included (Article 63.1).
S. caespitosum var. *sublaeve* Renauld & Cardot, Bull. Soc. Roy. Bot. Belgique 29(1): 159. 1890.
Other use: *Scleropodium cespitans* var. *sublaeve* (Renauld & Cardot) Wijk & Margadant, 1965.
S. cespitans (Wilson ex C. Müller) L. F. Koch, 1950.
S. cespitans var. *sublaeve* (Renauld & Cardot) Wijk & Margadant, Taxon 14: 198. 1965.
Basionym: *Scleropodium caespitosum* var. *sublaeve* Renauld & Cardot, 1890.
S. illecebrum W. P. Schimper in B.S.G., 1853.
S. illecebrum var. *teneriffae* Cardot & H. Winter in H. Winter, Hedwigia 55: 121. 1914.
Other use: *Cirriphyllum illecebrum* fo. *teneriffae* (Cardot & H. Winter in H. Winter) Düll, 1980.
S. julaceum E. Lawton, Bull. Torrey Bot. Club 94: 22. 1967.
Type: U.S.A. California: Los Angeles Co., Sepulveda Canyon, *MacFadden 18595*. Holotype: DUKE; isotype: CANM, herb. MacFadden.
S. touretii (Bridel) L. F. Koch, 1949, "*tourretii*."
S. touretii var. *colpophyllum* (Sullivant) E. Lawton ex H. Crum, Bull. Torrey Bot. Club 72: 245. 1969.
Basionym: *Eurhynchium colpophyllum* Sullivant, 1874.
Note: invalid, basionym not cited (Article 33.2), in Bull. Torrey Bot. Club 94: 24. 1967.

Scopelophila (Mitten) Lindberg, 1872.
S. infericola Hoe, Bryologist 76: 192. f. 1-6. 1973.
Type: U.S.A. Hawaii: Hawaii Volcanoes Natl. Park, Kilauea Crater, Sulphur Banks, *Siegel & Siegel*, 1972 (Hoe accession no. 72-2). Holotype: BISH; isotypes: MICH, U, herb. Hoe.

Scopelophila, continued.
S. norrisii Zander, Bryologist 88: 353. f. 1-6. 1985 [1986].
Type: Mexico. Nayarit: Municipio Acaponeta, near Cangrejo about 4.8 km W of Nexa del Nayar, *Norris & Taranto 14659*. Holotype: TENN; isotype: BUF. Paratypes cited.

Scorpidium (W. P. Schimper) Limpricht, 1899.
S. cossonii (W. P. Schimper) Hedenäs, Lindbergia 15: 18. 1989, "*cossoni*."
Basionym: *Hypnum cossonii* W. P. Schimper, 1866.
S. lapponicum (Norrlin) Tuomikoski & T. Koponen, Ann. Bot. Fenn. 16: 223. 1979.
Basionym: *Hypnum lycopodioides* var. *lapponicum* Norrlin, 1873.
S. revolvens (Swartz) Rubers in Touw & Rubers, Nederl. Bladm. 380. 1989.
Basionym: *Hypnum revolvens* Swartz, 1801.
Note: redundant combination in Hedenäs, Lindbergia 15: 24. 1989.
S. vernicosum (Mitten) Tuomikoski, Ann. Bot. Fenn. 10: 216. 1973.
Basionym: *Stereodon vernicosus* Mitten, 1864.

Scorpiurium W. P. Schimper, 1876.
S. spelaeorum Grom, Nova Hedwigia 15: 430. 1968.
Type: Yugoslavia. Skocjan (St. Kanzian), *Grom 710*. Holotype: herb. Grom.

***Sebillea** Bizot, Rev. Bryol. Lichénol. 40: 120. 1974.
*invalid, name of only included species did not fulfill requirements of valid publication (Article 42.1c).
Type: *S. brasiliensis* Bizot, invalid name.
Original placement: Pottiaceae.
**S. brasiliensis* Bizot, Rev. Bryol. Lichénol. 40: 120. pl. 12. 1974.
*invalid, single element not cited as holotype (Article 37.3).
Type: Brazil. Uberaba Minas, *Affonso s.n.* Herbaria: "herbiers Sebille & Bizot."

Seligeria Bruch & W. P. Schimper in B.S.G., 1846.
S. sect. *Anodus* (Bruch & W. P. Schimper in B.S.G.) Nyholm, Ill. Fl. Nord. Mosses 1: 70. 1986.
Basionym: *Anodus* Bruch & W. P. Schimper in B.S.G., 1846.
S. sect. *Blindiadelphus* (Lindberg) Nyholm, Ill. Fl. Nord. Mosses 1: 67. 1986.
Basionym: *Seligeria* subgen. *Blindiadelphus* Lindberg, 1880.
S. subgen. *Blindiadelphus* Lindberg, Meddeland. Soc. Fauna Fl. Fenn. 5: 3. 1880.
Other use: *Seligeria* sect. *Blindiadelphus* (Lindberg) Nyholm, 1986.
S. sect. *Cyrtoseligeria* (Vitt) Nyholm, Ill. Fl. Nord. Mosses 1: 71. 1986.
Basionym: *Seligeria* subgen. *Cyrtoseligeria* Vitt, 1976.
S. subgen. *Cyrtoseligeria* Vitt, Lindbergia 3: 253. 1976.
Type: *Grimmia recurvata* Hedwig, *S. recurvata* (Hedwig) B.S.G., holotype.
Other use: *Seligeria* sect. *Cyrtoseligeria* (Vitt) Nyholm, 1986.

Seligeria, continued.

S. subgen. *Megalosporia* Vitt, Lindbergia 3: 266. 1976.
Type: *S. tristichoides* Kindberg, holotype.

S. sect. *Trifariae* T. Schauer, Nova Hedwigia 14: 317. 1967 [1968].
Type: *Weissia trifaria* Bridel, *S. trifaria* (Bridel) Lindberg, holotype.

S. sect. *Trochobryum* (Breidler & G. R. Beck) Nyholm, Ill. Fl. Nord. Mosses 1: 69. 1986.
Basionym: *Trochobryum* Breidler & G. R. Beck, 1885.

S. alpestris T. Schauer, Nova Hedwigia 14: 321. f. 13-19. 1967 [1968].
Type: Germany. Bavaria: Allgau, ripae Starzlach prope Rohrmoos, 1000 m, *Familler s.n.* (Fl. Exsicc. Bavar. Bryoph. 480). Holotype: M.

S. austriaca T. Schauer, Nova Hedwigia 14: 323. f. 7-12. 1967 [1968].
Type: Germany. Tirol, Allgauer Alpen, Flyschlucht bei Hinterbornback, 1000 m, *Schauer*, 1966. Holotype: M.

S. careyana Vitt & Schofield, Bryologist 79: 232. f. 1-8. 1976.
Type: Canada. British Columbia: Queen Charlotte Islands, Northwest Moresby Island, southside of Kootenay Inlet Narrows, *Schofield 31298*. Holotype: UBC; isotype: ALTA.

S. carniolica (Breidler & G. R. Beck) Nyholm, Ill. Moss Fl. Fennoscandia. II. Musci 775. 1969.
Basionym: *Trochobryum carniolicum* Breidler & G. R. Beck, 1885.
Note: invalid, basionym not cited (Article 33.2), in Ill. Moss Fl. Fennoscandia. II. Musci 34. 1954.

Sematophyllum Mitten, 1864.

S. apaloblastum (C. Müller) Buck, Brittonia 35: 330. 1983.
Basionym: *Aptychus apaloblastus* C. Müller, 1897.

S. aptychoides (Schliephacke ex C. Müller) Buck, Contr. Univ. Michigan Herb. 15: 139. 1982.
Basionym: *Neckera aptychoides* Schliephacke ex C. Müller, 1857.

S. barnesii (Renauld & Cardot) Buck, Brittonia 35: 330. 1983.
Basionym: *Rhaphidostegium barnesii* Renauld & Cardot, 1890.

S. brotheri Iwatsuki & B. C. Tan, Misc. Bryol. Lichenol. 7: 152. 1977.
Replaced name: *Rhaphidostegium luzonense* Brotherus, 1918.
Blocking name: *Sematophyllum luzonense* Brotherus, 1918.

S. cataractae Buck, Brittonia 35: 328. 1983.
Type: Brazil. Santa Catarina: Serra Geral, *Ule*, 1890 (Bryoth. Brasil. 92). Holotype: NY; isotype: NY.

S. chlorocormum (C. Müller) Buck, Churchill & Sastré-de Jesús in Churchill & Sastré-de Jesús, Bryologist 90: 248. 1987 [1988].
Basionym: *Aptychus chlorocormus* C. Müller, 1897.

S. cubense Buck, Brittonia 35: 327. f. 1-7. 1983.
Type: Cuba. *Wright 106*. Holotype: NY; isotype: NY.

S. dimorphum (Renauld & Cardot) F. D. Bowers, Bryologist 77: 167. 1974.
Basionym: *Rhaphidostegium dimorphum* Renauld & Cardot, 1902-03 [1905].

Sematophyllum, continued.

S. dregei (C. Müller) Magill in Magill & Schelpe, Mem. Bot. Surv. South Africa 43: 7. 1979.
Basionym: *Hypnum dregei* C. Müller, 1851.

S. entodontoides Bescherelle, 1898.

S. entodontoides var. *moorei* (E. B. Bartram) H. O. Whittier & B. Whittier, Bryologist 77: 441. 1974.
Basionym: *Sematophyllum moorei* E. B. Bartram, 1931.

S. fabronia (Bescherelle) Buck, Contr. Univ. Michigan Herb. 15: 139. 1982.
Basionym: *Meiothecium fabronia* Bescherelle, 1891.

S. gueinzii (Hampe) Magill in Magill & Schelpe, Mem. Bot. Surv. South Africa 43: 7. 1979.
Basionym: *Hypnum gueinzii* Hampe, 1844.

S. gunckelii (Thériot) Buck, Moscosoa 5: 192. 1989.
Basionym: *Rhaphidostichum gunckelii* Thériot, 1930.

S. harpidioides (Renauld & Cardot) F. D. Bowers, Bryologist 77: 167. 1974.
Basionym: *Rhaphidostegium harpidioides* Renauld & Cardot, 1902-03 [1905].

**S. humillimum* Tosco & Piovano, Allionia 4: 172. f. 41-43. 1956.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Sematophyllum humillimum* Dixon & Thériot, 1942.
Note: not in Index Muscorum.

S. kunkelii H. Robinson, Phytologia 29: 118. 1974.
Type: Chile. Juan Fernandez Islands: Mas a Tierra, *Kunkel 317/18a*. Holotype: B; isotype: US.

S. longirameum (Brotherus) Sehnem, Pesquisas, Bot. 32: 119. 1978.
Basionym: *Rhaphidostegium longirameum* Brotherus, 1927.
Note: valid, error of bibliographic citation of basionym (Article 33.2), "*Sematophyllum longirameum*."

**S. luzonense* (Brotherus) Brotherus, Nat. Pflanzenfam. (ed. 2) 11: 431. 1925.
*illegitimate, later homonym (Article 64.1).
Basionym: *Rhaphidostegium luzonense* Brotherus, 1918.
Earlier name: *Sematophyllum luzonense* Brotherus, 1918.
Correct name: *Sematophyllum brotheri* Iwatsuki & B. C. Tan, 1977.

S. macgregorii Brotherus & Geheeb, Oefers. Förh. Finska Vetensk.-Soc. 37: 170. 1895.
Other use: *Wijkia macgregorii* (Brotherus & Geheeb) H. Crum, 1971.

S. mandobboense Zanten, Nova Guinea, Bot. 10(16): 334. pl. 31: f. 1. 1964.
Type: Indonesia [New Guinea]. Irian Barat: 3 km S of Ajerok, 50 m, *Zanten 135*. Holotype: L; isotype: GRO.

S. mittenianum Buck, Contr. Univ. Michigan Herb. 15: 139. 1982.
Replaced name: *Meiothecium andinum* Mitten, 1869.
Blocking name: *Sematophyllum andinum* Mitten, 1869.

S. moorei E. B. Bartram, Occas. Pap. Bernice P. Bishop Mus. 9(16): 11. f. 4. 1931.
Other use: *Sematophyllum entodontoides* var. *moorei* (E. B. Bartram) H. O. Whittier & B. Whittier, 1974.

Sematophyllum, continued.

S. napoanum (De Notaris) Steere, Beih. Nova Hedwigia 90: 284. 1988.
Basionym: *Hypnum napoanum* De Notaris, 1859.

S. negrense (Spruce ex Mitten) Buck, Contr. Univ. Michigan Herb. 15: 139. 1982.
Basionym: *Meiothecium negrense* Spruce ex Mitten, 1869.

S. oedophysidium Buck, Brittonia 35: 329. 1983.
Type: Brazil. Rio de Janeiro, *Glaziou 12316*. Holotype: NY.

**S. paraguariense* (Brotherus) Buck, Candollea 40: 207. 1985.
*invalid, basionym invalid (Article 33.2).

S. pectinatum (Herzog) Schafer-Verwimp, J. Hattori Bot. Lab. 67: 318. 1989.
Basionym: *Rhaphidostegium pectinatum* Herzog, 1925.

S. piliferum Brotherus, Oefers. Förh. Finska Vetensk.-Soc. 47(14): 9. 1905.
Other use: *Wijkia pilifera* (Brotherus) H. Crum, 1971.

S. robusticaule (Brotherus) Sehnem, Pesquisas, Bot. 32: 127. 1978.
Basionym: *Rhaphidostegium robusticaule* Brotherus, 1927.
Note: valid, error of bibliographic citation of basionym (Article 33.2), "*Sematophyllum robusticaule*."

S. ruficaule Thwaites & Mitten, J. Linn. Soc., Bot. 13: 319. 1873.
Other use: *Clastobryum ruficaule* (Thwaites & Mitten) Tixier, 1977.

S. santae Tosco & Piovano, Allionia 4: 168. f. 38-40. 1956.
Note: not in Index Muscorum.

S. sebillei (Brotherus & Thériot) R. S. Chopra, Taxon. Indian Mosses 512. 1975.
Basionym: *Rhaphidostegium sebillei* Brotherus & Thériot, 1924.

S. serrulatum H. Crum & Richards, J. Bryol. 13: 197. f. 2. 1984.
Type: Costa Rica. Cartago: 10 km E of La Virgen, Sarapiqui, 100 m, *Richards 6286*. Holotype: MICH; isotype: NMW.

S. simulans (Renauld & Cardot) F. D. Bowers, Bryologist 77: 168. 1974.
Basionym: *Rhaphidostegium simulans* Renauld & Cardot, 1902-03 [1905].

S. sticticola (C. Müller) Churchill, Trop. Bryol. 1: 126. 1989.
Basionym: *Hypnum sticticola* C. Müller, 1874.

S. subcespitosum (Renauld & Cardot) F. D. Bowers, Bryologist 77: 168. 1974.
Basionym: *Rhaphidostegium subcespitosum* Renauld & Cardot, 1902-03 [1905].

S. subhumile (C. Müller) Fleischer, 1923.

S. subhumile subsp. *japonicum* (Brotherus) Seki, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 12: 38. 1968.
Basionym: *Rhaphidostegium japonicum* Brotherus, 1899.

**S. tenuirostre* (W. J. Hooker) Dixon, Bot. Not. 1937: 83. 1937.
*illegitimate, later homonym (Article 64.1).
Basionym: *Hypnum tenuirostre* W. J. Hooker, 1819.
Earlier name: *Sematophyllum tenuirostre* (Bruch & W. P. Schimper in Sullivant in A. Gray) Britton, 1902.
Correct name: *Sematophyllum uncinatum* Stone & G. A. M. Scott, 1973 [1974].

Sematophyllum, continued.
S. tonduzii (Renauld & Cardot) F. D. Bowers, Bryologist 77: 168. 1974.
Basionym: *Rhaphidostegium tonduzii* Renauld & Cardot, 1902-03 [1905].
S. tucumanense E. B. Bartram, Rev. Bryol. Lichénol. 33: 327. 1964-65 [1965].
Type: Argentina. Tucuman: Sierras de San Javier, *Digilio & Grassi 2717*. Holotype: herb. Bartram.
S. turgidulum (Herzog) Churchill, Trop. Bryol. 1: 126. 1989.
Basionym: *Rhaphidostegium turgidulum* Herzog, 1916.
S. ulicinum Mitten, J. Linn. Soc., Bot. 12: 478. 1869.
Other use: *Acroporium ulicinum* (Mitten) H. Crum, 1986.
S. ulicinum var. *exiguum* Brotherus, Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 83: 345. 1926.
Other use: *Schraderobryum ulicinum* var. *exiguum* (Brotherus) Wijk & Margadant, 1965.
S. uncinatum Stone & G. A. M. Scott, J. Bryol. 7: 604. 1973 [1974].
Replaced name: *Sematophyllum tenuirostre* (W. J. Hooker) Dixon, 1937.
Blocking name: *Sematophyllum tenuirostre* (Bruch & W. P. Schimper in Sullivant in A. Gray) Britton, 1902.
S. zuluense (Sim) Magill in Magill & Schelpe, Mem. Bot. Surv. South Africa 43: 7. 1979.
Basionym: *Rhaphidorrhynchium zuluense* Sim, 1926.

Semibarbula Herzog ex Hilpert, 1933.
S. congoana (Thériot) Bizot, Rev. Bryol. Lichénol. 38: 549. 1971-72 [1973].
Basionym: *Barbula congoana* Thériot, 1930.
S. elongata Hilpert, Beih. Bot. Centralbl. 50(2): 626. 1933.
Replaced name: *Barbula elongata* Dixon, 1922.
Blocking name: *Barbula elongata* Wilson in Mitten, 1851.
Other use: *Barbula zambesiaca* Magill in Magill & Schelpe, 1979.
S. lambarenensis (Potier de la Varde) Bizot, Rev. Bryol. Lichénol. 38: 594. 1971-72 [1973].
Basionym: *Barbula lambarenensis* Potier de la Varde, 1933.
S. ranuii Gangulee, Nova Hedwigia 8: 148. pl. 5. 1964.
Type: India. Ranchi Distr., prope cataractas Hudru, in regione Chotanagpur, *Gangulee 2400*. Holotype: Presidency College, Calcutta.

Serpotortella Dixon, 1942.
S. chenagonii (Renauld & Cardot) W. D. Reese & Zander, Bryologist 90: 234. 1987 [1988].
Basionym: *Syrrhopodon chenagonii* Renauld & Cardot, 1890.
S. cyrtophylla (Bescherelle) W. D. Reese & Zander, Bryologist 90: 232. 1987 [1988].
Basionym: *Syrrhopodon cyrtophyllus* Bescherelle, 1878.

Sharpiella Iwatsuki, J. Hattori Bot. Lab. 28: 202. 1965.
Replaced name: *Dolichotheca* Lindberg, 1874.
Blocking name: *Dolichotheca* Cassini, 1827.
S. renitens (Mitten) Ando, Hikobia 5: 181. 1969.
Basionym: *Stereodon renitens* Mitten, 1859.
S. seligeri (Bridel) Iwatsuki, J. Hattori Bot. Lab. 28: 203. 1965.
Basionym: *Leskea seligeri* Bridel, 1801.
S. spinulosa (Iwatsuki) Iwatsuki, J. Hattori Bot. Lab. 28: 205. 1965.
Basionym: *Dolichotheca spinulosa* Iwatsuki, 1963.
S. striatella (Bridel) Iwatsuki, J. Hattori Bot. Lab. 28: 203. 1965.
Basionym: *Leskea striatella* Bridel, 1827.
S. turfacea (Lindberg) Iwatsuki, J. Hattori Bot. Lab. 28: 203. 1965.
Basionym: *Hypnum turfaceum* Lindberg, 1857.

Simplicidens Herzog, 1910.
S. andicola Herzog, Beih. Bot. Centralbl. 26(2): 58. f. 2. 1910.
Other use: *Fissidens andicola* (Herzog) Bruggeman-Nannenga in Bruggeman-Nannenga & Berendsen in Bruggeman-Nannenga, 1988.

Sphaerotheciella Fleischer, 1914.
S. pachycarpa (W. P. Schimper ex Bescherelle) Manuel, J. Hattori Bot. Lab. 49: 136. 1981.
Basionym: *Cryphaea pachycarpa* W. P. Schimper ex Bescherelle, 1872.
S. pinnata (W. P. Schimper in B.S.G.) Manuel, Occas. Pap. Farlow Herb. 12: 36. 1977.
Basionym: *Cryphaea pinnata* W. P. Schimper in B.S.G., 1850.

Sphaerothecium Hampe, 1865.
S. subchlorophyllosum (C. Müller in Rabenhorst) Frahm, Bryologist 89: 153. 1986.
Basionym: *Campylopus subchlorophyllosus* C. Müller in Rabenhorst, 1884.

+**Sphagnophyllites** Pant & N. Basu, Palaeobotanist 25: 346. 1976.
Type: *S. triassicus* Pant & Basu, holotype.
Original placement: not indicated by authors.
+*S. triassicus* Pant & N. Basu, Palaeobotanist 25: 346. pl. 3. 1976 [1978].
Type: India. Madhya Pradesh: Nidpur, Sidhi, Triassic-Middle Gondwana, *Pant 40604*. Holotype: Pant Collection, Allahabad University.

Sphagnum Linnaeus, 1753.
S. sect. *Acrosphagnum* C. Müller, Flora 70: 405. 1887.
Other use: *Sphagnum* subsect. *Acrosphagnum* (C. Müller) A. Eddy, 1985.
S. subsect. *Acrosphagnum* (C. Müller) A. Eddy, Bull. Brit. Mus. (Nat. Hist.), Bot. 12: 116. 1985.
Basionym: *Sphagnum* sect. *Acrosphagnum* C. Müller, 1887.

Sphagnum, continued.

S. sect. *Cuculliformes* H. Crum, Contr. Univ. Michigan Herb. 16: 141. 1987.
*invalid, subordinate taxon merely mentioned (Article 34.1d).
Note: Article 42.1 does not apply, as it is restricted to only the ranks of genus and species.

S. sect. *Insulosa* Isoviita, Ann. Bot. Fenn. 3: 231. 1966.
Replaced name: *Sphagnum* sect. *Truncata* Warnstorf ex Horrell, 1900.
Blocking name: *Sphagnum* sect. *Truncata* Russell, 1865.

S. sect. *Rigida* Lindberg, Öfvers. Förh. Kongl. Svenska Vetensk.-Akad. 19: 135. 1862.
Other use: *Sphagnum* subgen. *Rigida* (Lindberg) A. Eddy, 1977.

S. subgen. *Rigida* (Lindberg) A. Eddy, Bull. Brit. Mus. (Nat. Hist.), Bot. 5: 431. 1977.
Basionym: *Sphagnum* sect. *Rigida* Lindberg, 1862.

*S. sect. *Truncata* Warnstorf ex Horrell, J. Bot. 38: 119. 1900.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Sphagnum* sect. *Truncata* Russell, 1865.
Correct name: *Sphagnum* sect. *Insulosa* Isoviita, 1966.

S. acutifolium Schrader, 1794.

S. acutifolium var. *alpinum* Milde, Bryol. Siles. 382. 1869.
Other use: *Sphagnum nemoreum* var. *alpinum* (Milde) Wijk & Margadant, 1965.

S. acutifolium var. *atroviride* Schliephacke in Röll, Abh. Thüring. Bot. Vereins Irmischia 3: 21. 1884.
Other use: *Sphagnum nemoreum* var. *atroviride* (Schliephacke in Röll) Wijk & Margadant, 1965.

S. acutifolium var. *elegans* Braithwaite, Sphagnac. Eur. 72. 1880.
Other use: *Sphagnum nemoreum* var. *elegans* (Braithwaite) Wijk & Margadant, 1965.

S. acutifolium var. *leptocladum* Limpricht, Laubm. Deutschl. 1: 113. 1885.
Other use: *Sphagnum nemoreum* var. *leptocladum* (Limpricht) Pilous, 1971, *Sphagnum rubellum* var. *leptocladum* (Limpricht) Wijk & Margadant, 1965.

S. acutifolium var. *schimperi* Warnstorf, Eur. Torfm. 51. 1881.
Other use: *Sphagnum nemoreum* var. *schimperi* (Warnstorf) Pilous, 1971.

S. acutifolium var. *subtile* Russell, Arch. Naturk. Liv- Ehst- Kurlands, Ser. 2, Biol. Naturk. 10: 509. 1894.
Other use: *Sphagnum nemoreum* var. *subtile* (Russell) Nyholm, 1969.

S. acutifolium var. *tenellum* W. P. Schimper, Mém. Hist. Nat. Sphaignes 64. 1857.
Other use: *Sphagnum capillifolium* var. *tenellum* (W. P. Schimper) H. Crum, 1975.

S. affine Renauld & Cardot, Rev. Bryol. 12: 44. 1885.
Other use: *Sphagnum imbricatum* subsp. *affine* (Renauld & Cardot) Flatberg, 1984.

Sphagnum, continued.

S. andersonianum Andrus, Bryologist 83: 60. f. 1-7. 1980.
Type: U.S.A. New York: Onondaga Co., Cicero Swamp, 42°09' N, 76°03' W, *Andrus 15X1975*. Holotype: ALTA; "isotypes as in Andrum and Vitt [Bryologist 78: 64-66]. 1975."
Other indicated distribution: Canada (Labrador, Nova Scotia).
Original placement: sect. *Acutifoliorum*.

S. angustilimbatum Warnstorf, Allg. Bot. Z. Syst. 1: 135. 1895.
Other use: *Sphagnum planifolium* var. *angustilimbatum* (Warnstorf) A. Eddy, 1985.

S. annulatum Warnstorf, 1898.

S. annulatum var. *porosum* (Schliephacke & Warnstorf) Maass & Isoviita, Nova Hedwigia 14: 189. 1967 [1968].
Basionym: *Sphagnum recurvum* var. *porosum* Schliephacke & Warnstorf, 1884.

S. antarense Wijk & Zanten in Zanten, Nova Guinea, Bot. 10(16): 266. pl. 23: f. 1. 1964.
Type: Indonesia [New Guinea]. Irian Barat: Mt. Antares, W summit, 3350 m, *Zanten 681*. Holotype: L; isotype: GRO.

S. arcticum Flatberg & Frisvoll, Bryologist 87: 143. f. 1-22. 1984.
Type: Norway. Svalbard, Spitsbergen, Todalen, 78°10' N, 15°50' E, *Brattbakk s.n.* Holotype: TRH; isotypes: C, H.

S. aureum McQueen, Bryologist 92: 405. f. 1-8. 1989.
Type: Costa Rica. Cerro de la Muerte, 3250 m, *McQueen 4020*. Holotype: VT; isotype: CR.

S. auriculatum W. P. Schimper, 1857.

S. auriculatum var. *inundatum* (Russell) M. O. Hill, J. Bryol. 8: 439. 1975.
Basionym: *Sphagnum inundatum* Russell, 1894.

S. austinii Sullivant in Austin, Musci Appalach. 1: 3. 1870, "*austini*."
Other use: *Sphagnum imbricatum* subsp. *austinii* (Sullivant in Austin) Flatberg, 1984.

S. austinii var. *glaucum* Röll, Hedwigia 36: 54. 1887.
Other use: *Sphagnum imbricatum* var. *glaucum* (Röll) Wijk & Margadant, 1965.

S. azuayense H. Crum, J. Hattori Bot. Lab. 63: 94. f. 87-94. 1987.
Type: Ecuador. Azuay: Cuenca-Saraguro road at km 68, 3350 m, *Laegaard 53594E*. Holotype: NY; isotype: MICH.
Original placement: sect. *Acutifolia*.

S. balticum (Russell) C. E. O. Jensen, 1890.

S. balticum var. *ruppinense* (Warnstorf) Pilous, Fl. CSSR, C, Bryol. 1: 302. 1971.
Basionym: *Sphagnum ruppinense* Warnstorf, 1908.

S. barclayae H. Crum, J. Bryol. 15: 531. f. 1-8. 1989.
Type: Ecuador. Carci: paramos del Angel, ca. 3750 m, *Barclay & Juajibioy 9373*. Holotype: MO; isotype: CANM.
Original placement: sect. *Cuspidata*.

Sphagnum, continued.

S. bordasii Bescherelle, Ann. Sci. Nat. Bot., ser. 6, 10: 330. 1880.
Other use: *Sphagnum truncatum* var. *bordasii* (Bescherelle) A. Eddy, 1985.

S. capillaceum (Weiss.) Schrank, 1789.

S. capillaceum var. *tenerum* (Sullivant & Lesquereux ex Sullivant in A. Gray) H. Crum, Bryologist 74: 168. 1971.
Basionym: *Sphagnum tenerum* Sullivant & Lesquereux ex Sullivant in A. Gray, 1856.

S. capillifolium (Ehrhart) Hedwig, 1782.

S. capillifolium var. *rubellum* (Wilson) A. Eddy in R. E. Daniels & A. Eddy, Handb. Eur. Sphagna 96. 1985.
Basionym: *Sphagnum rubellum* Wilson, 1855.

S. capillifolium var. *tenellum* (W. P. Schimper) H. Crum, Contr. Univ. Michigan Herb. 11: 90. 1975.
Basionym: *Sphagnum acutifolium* var. *tenellum* W. P. Schimper, 1857.

S. capillifolium var. *tenerum* (Sullivant & Lesquereux ex Sullivant in A. Gray) H. Crum, Contr. Univ. Michigan Herb. 11: 90. 1975.
Basionym: *Sphagnum tenerum* Sullivant & Lesquereux ex Sullivant in A. Gray, 1856.

S. carlottae Andrus, Bryologist 87: 351. 1984.
*invalid, no Latin description (Article 36.1).

S. carolinianum Andrus, Bryologist 86: 257. f. 1-4, 11-15, 18, 19. 1983.
Type: U.S.A. North Carolina: Brunswick Co., town of Lockwoods Folly, Green Swamp, 4.2 miles N of Supply on NC211, *Andrus 5510*. Holotype: DUKE; isotypes: BING, NY.
Other use: *Sphagnum subsecundum* var. *carolinianum* (Andrus) H. Crum, 1984.

S. centrale C. E. O. Jensen, Bih. Kongl. Svenksa Vetensk.-Akad. Handl., 21 Afd., 3(10): 34. 1896.
Replaced name: *Sphagnum intermedium* (Warnstorf) Russell, 1894.
Blocking name: *Sphagnum intermedium* G. F. Hoffmann, 1796.
Other use: *Sphagnum palustre* var. *centrale* (C. E. O. Jensen) A. Eddy in R. E. Daniels & A. Eddy, 1985.

S. cleefii H. Crum, Bryologist 92: 100. f. 17-23. 1989.
Type: Colombia. Boyaca: paramo de la Sarna between Sogamosa and Vado Hondo, 3390 m, *Cleef 9405*. Holotype: MICH.
Original placement: sect. *Subsecunda*.

S. compactum Lamarck & A. P. de Candolle, 1805.

S. compactum var. *expositum* Maass, Nova Hedwigia 12: 91. 1966.
Type: U.S.A. North Carolina: Bertie Co., 5 miles SE of Lewiston, by route 308, *Reed 66075*. Holotype: US.

S. compactum fo. *rigidum* (Nees & Hornschuch) Pilous, Fl. CSSR, C, Bryol. 1: 241. 1971.
Basionym: *Sphagnum compactum* var. *rigidum* Nees & Hornschuch, 1823.

Sphagnum, continued.

S. compactum var. *rigidum* Nees & Hornschuch, Bryol. Germ. 1: 14. pl. 2: f. 5. 1823.

Other use: *Sphagnum compactum* fo. *rigidum* (Nees & Hornschuch) Pilous, 1971.

+*S. crassiangulatum* Griazeva, Trudy Vsesojuzn. Nauchno-Issl. Geol. Razved. Inst. 239: 109. pl. 1: f. 1-3. 1964.

Type: information concerning the type was not available to the authors of Index of Mosses at the time of publication.

S. crispum Andrus, Bryologist 86: 260. f. 5-10, 16-17. 1983.

Type: U.S.A. Oregon: Lane Co., Willamette National Forest, Moon Lake, 22.6 km SSE of Oakridge, T23S, R3E, S25, 1494 m, *Christy 2181*. Holotype: NY; isotypes: BING, DUKE, MICH.

S. cuculliforme H. Crum, Contr. Univ. Michigan Herb. 16: 141. 1987.

Type: Ecuador. General Plaza (Limon)-Gualaceo road, 18-20 km from Limon, *Lojtnant & Molau 14627*. Holotype: MICH; isotype: NY. Paratype cited.

S. cuspidatum Ehrhart ex G. F. Hoffmann, 1796.

S. cuspidatum var. *fallax* Klinggräff, Schriften Königl. Phys.-Ökon. Ges. Königsberg 13: 7. 1872.

Other use: *Sphagnum flexuosum* var. *fallax* (Klinggräff) A. J. E. Smith, 1977.

S. cuspidatum var. *flaccidifolium* (Dixon ex A. Johnson) A. Eddy, Bull. Brit. Mus. (Nat. Hist.), Bot. 5: 416. 1977.

Basionym: *Sphagnum flaccidifolium* Dixon ex A. Johnson, 1959.

S. cuspidatum var. *malaccense* (Warnstorf) Wijk & Margadant, Taxon 14: 198. 1965.

Basionym: *Sphagnum malaccense* Warnstorf, 1892.

S. cuspidatum fo. *serrulatum* (Schliephacke) Pilous, Fl. CSSR, C, Bryol. 1: 278. 1971.

Basionym: *Sphagnum laxifolium* var. *serrulatum* Schliephacke, 1865.

S. cuspidatum subsp. *subrecurvum* (Warnstorf) A. Eddy, Bull. Brit. Mus. (Nat. Hist.), Bot. 5: 413. 1977.

Basionym: *Sphagnum subrecurvum* Warnstorf, 1895.

S. cymbifolium (Ehrhart) Hedwig, 1782.

S. cymbifolium var. *carneum* Warnstorf, Verh. Bot. Vereins Prov. Brandenburg 41: 28. 1899.

Other use: *Sphagnum subbicolor* var. *carneum* (Warnstorf) Wijk & Margadant, 1965.

+*S. delicatum* Griazeva, Trudy Vsesojuzn. Nauchno-Issl. Geol. Razved. Inst. 239: 110. pl. 2: f. 4. 1964.

Type: information concerning the type was not available to the authors of Index of Mosses at the time of publication.

Sphagnum, continued.

S. fallax Klinggräff, 1881.

S. fallax var. *angustifolium* (Warnstorf in S. M. Møller & Binstead) Nyholm, Ill. Moss Fl. Fennoscandia. II. Musci 747. 1969.

Basionym: *Sphagnum recurvum* var. *angustifolium* Warnstorf in S. M. Møller & Binstead, 1888.

Note: valid, error of bibliographic citation of basionym (Article 33.2), "*S. recurvum* subsp. *angustifolium* C. Jens. ex Russ. in Sber. Nat.-Ges. Dorpat, 1889, 9, p. 99, 112."

S. fallax var. *flexuosum* (Dozy & Molkenboer) Nyholm, Ill. Moss Fl. Fennoscandia. II. Musci 747. 1969.

Basionym: *Sphagnum flexuosum* Dozy & Molkenboer, 1851.

S. fimbriatum Wilson in W. J. Hooker, 1845.

S. fimbriatum subsp. *concinnum* (Berggren) Flatberg & Frisvoll, J. Hattori Bot. Lab. 56: 308. 1984.

Basionym: *Sphagnum teres* var. *concinnum* Berggren, 1875.

S. fimbriatum var. *laxum* (Braithwaite) Wijk & Margadant, Taxon 14: 198. 1965.

Basionym: *Sphagnum squarrosum* var. *laxum* Braithwaite, 1880.

S. flaccidifolium Dixon ex A. Johnson, Gard. Bull. Straits Settlem. 17: 316. f. 1: a-b. 1959.

Other use: *Sphagnum cuspidatum* var. *flaccidifolium* (Dixon ex A. Johnson) A. Eddy, 1977.

S. flexuosum Dozy & Molkenboer, Prodr. Fl. Bat. 2(1): 76. f. 3. 1851.

Other use: *Sphagnum fallax* var. *flexuosum* (Dozy & Molkenboer) Nyholm, 1969.

S. flexuosum var. *fallax* (Klinggräff) A. J. E. Smith, J. Bryol. 9: 394. 1977.

Basionym: *Sphagnum cuspidatum* var. *fallax* Klinggräff, 1872.

S. flexuosum fo. *fibrosum* (Schliephacke in Warnstorf) Margadant & During, Bekn. Fl. Ned. Blad. Leverm. 443. 1982.

Basionym: *Sphagnum recurvum* var. *fibrosum* Schliephacke in Warnstorf, 1884.

S. flexuosum var. *ramosissimum* Andrus, Bryologist 91: 365. 1988.

Type: U.S.A. Pennsylvania: McKean Co., town of Sergeant, 4 km W of Clermon, *Andrus 5970* (Sphagnoth. Bor.-Amer. 250). Holotype: ALTA. Paratypes cited.

S. flexuosum var. *tenue* (Klinggräff) Pilous, Fl. CSSR, C, Bryol. 1: 285. 1971.

Basionym: *Sphagnum recurvum* var. *tenue* Klinggräff, 1872.

Note: redundant combination in M. O. Hill ex A. J. E. Smith, J. Bryol. 9: 394. 1977.

S. garysmithii H. Crum, J. Hattori Bot. Lab. 63: 85. f. 38-46. 1987.

Type: Brazil. Goias: ca. 10 km N of Alto do Paraiso, Chapada dos Vendeiros, 1100 m, *Irwin, Harley & Smith 33181*. Holotype: MICH; isotype: NY.

Original placement: sect. *Subsecunda*.

Sphagnum, continued.

S. glaucum Klinggräff, 1881.

S. glaucum var. *schliephackeanum* Röll, Bot. Centralbl. 46: 411. 1891.

Other use: *Sphagnum palustre* var. *schliephackeanum* (Röll) Wijk & Margadant, 1965.

S. gomezii H. Crum, Cryptog. Bryol. Lichénol. 5: 295. f. 9-16. 1984.

Type: Costa Rica. Cerro de la Muerte, *Gómez P. 2124*. Holotype: F.

S. grandirete Warnstorf, Magyar Bot. Lapok 1: 43. 1902.

Other use: *Sphagnum magellanicum* subsp. *grandirete* (Warnstorf) A. Eddy, 1985.

S. guanabarae H. Crum, J. Hattori Bot. Lab. 63: 90. f. 62-69. 1987.

Type: Brazil. Guanabara: Lagoinha, *Sucre 3249*. Holotype: MICH; isotypes: MO, RB.

Original placement: sect. *Subsecunda*.

S. harleyi H. Crum, J. Hattori Bot. Lab. 63: 80. f. 15-23. 1987.

Type: Brazil. Bahia: nearly dry falls of Rio Doido, 18 km E of Morro de Cahpeu, Serra do Tombador, 1100 m, *Irwin, Harley & Smith 30752*. Holotype: NY; isotype: US.

Original placement: sect. *Sphagnum*.

S. imbricatum Hornschuch ex Russow, 1865.

**S. imbricatum* fo. *affine* (Renauld & Cardot) Nyholm, Ill. Moss Fl. Fennoscandia. II. Musci 701. 1969.

*invalid, basionym not cited (Article 33.2).

S. imbricatum subsp. *affine* (Renauld & Cardot) Flatberg, Kongel. Norske Vidensk. Selsk. Skr. (Trondheim) 1984(3): 46. 1984.

Basionym: *Sphagnum affine* Renauld & Cardot, 1885.

S. imbricatum var. *arcticum* Flatberg, Kongel. Norske Vidensk. Selsk. Skr. (Trondheim) 1984(3): 46. 1984.

Type: U.S.A. Alaska: Pitmegea River, Cape Sabine, *Steere, Holmen & Mårtensson, 1960* (Bryoph. Arct. Exsicc. 19). Holotype: S; isotypes: H, O, TROM. Other indicated distribution: Canada, U.S.S.R.

Other use: *Sphagnum steerei* Andrus, 1988.

S. imbricatum subsp. *austinii* (Sullivant in Austin) Flatberg, Kongel. Norske Vidensk. Selsk. Skr. (Trondheim) 1984(3): 46. 1984.

Basionym: *Sphagnum austinii* Sullivant in Austin, 1870.

S. imbricatum var. *glaucum* (Röll) Wijk & Margadant, Taxon 14: 198. 1965.

Basionym: *Sphagnum austinii* var. *glaucum* Röll, 1887.

**S. imbricatum* fo. *sublaeve* (Warnstorf) Nyholm, Ill. Moss Fl. Fennoscandia. II. Musci 701. 1969.

*invalid, basionym not cited (Article 33.2), not (Warnstorf) Röll (1907).

S. imperforatum H. Crum, Bryologist 92: 98. f. 1-8. 1989.

Type: Colombia. Antioquia: Mpio. Carmen del Viboral, Finca La Soledad, 2400-2600 m, *Luteyn & Callejas 11798*. Holotype: NY; isotype: MICH.

Original placement: sect. *Sphagnum*.

Sphagnum, continued.

S. inundatum Russell, Arch. Naturk. Liv- Ehst- Kurlands, Ser. 2, Biol. Naturk. 10: 390, 405. 1894.

Other use: *Sphagnum auriculatum* var. *inundatum* (Russell) M. O. Hill, 1975, *Sphagnum subsecundum* subsp. *inundatum* (Russell) A. Eddy, 1977.

S. irwinii H. Crum, J. Hattori Bot. Lab. 63: 77. f. 1-8. 1987.

Type: Brazil. Goias: ca. 20 km N of Alto do Paraiso, 1250 m, *Irwin, Harley & Smith 32684*. Holotype: MICH; isotype: NY.

Original placement: sect. *Sphagnum*.

S. itabense H. Crum & Buck, Brittonia 40: 191. f. 2. 1988.

Type: Paraguay. Alto Parana: Reserva Biologica del Itabo, ca. 37 km NNW Hernandarias, 250 m, *Buck 12381*. Holotype: MICH; isotype: NY.

Original placement: sect. *Subsecunda*.

S. laegaardii H. Crum, J. Hattori Bot. Lab. 63: 83. f. 31-37. 1987.

Type: Ecuador. Napo: Salcedo-Napo road, km 45, 390 m, *Laegaard 54157K*. Holotype: NY; isotype: MICH. Paratypes cited.

Original placement: sect. *Cuspidata*.

S. lankesteri H. Crum, Cryptog. Bryol. Lichénol. 5: 293. f. 1-8. 1984.

Type: Costa Rica. Probably from Codillera de Talamanca, *Lankester 189a*. Holotype: F.

S. laxifolium C. Müller, 1848.

S. laxifolium var. *serrulatum* Schliephacke, Verh. Zool.-Bot. Ges. Wien 15: 397. 1865.

Other use: *Sphagnum cuspidatum* fo. *serrulatum* (Schliephacke) Pilous, 1971.

S. macrophyllum Bernhardi ex Bridel, 1826.

S. macrophyllum var. *burinense* Maass, Bryologist 70: 181. f. 10-11, 16-17. 1967.

Type: Canada. Newfoundland: Burin Peninsula, Placentia West District, near Highway 11, 2.6 miles NNE of the turnoff to Boat Harbor, in two bog pools, 250-300 feet, *Maass*, 1962. Holotype: CAN; isotypes: COLO, H, MICH, herb. Maass.

S. maegdefraui H. Suzuki in Mägdefrau, Nova Hedwigia 38: 53. f. 2: e-i. 1983.

Type: Venezuela. Merida: La Aguado (Pico Espejo), 3350 m, *Mägdefrau 697*. Holotype: HIRO; isotypes: M, VEN.

S. magellanicum Bridel, 1798.

S. magellanicum subsp. *grandirete* (Warnstorf) A. Eddy, Bull. Brit. Mus. (Nat. Hist.), Bot. 12: 87. 1985.

Basionym: *Sphagnum grandirete* Warnstorf, 1902.

S. magellanicum var. *molle* (Schliephacke in Röll) Wijk & Margadant, Taxon 14: 198. 1965.

Basionym: *Sphagnum medium* var. *molle* Schliephacke in Röll, 1886.

S. magellanicum var. *versicolor* (Warnstorf) Wijk & Margadant, Taxon 14: 198. 1965.

Basionym: *Sphagnum medium* fo. *versicolor* Warnstorf, 1890.

Sphagnum, continued.

S. majus (Russell) C. E. O. Jensen, 1890.

S. majus subsp. *norvegicum* Flatberg, Kongel. Norske Vidensk. Selsk. Skr. (Trondheim) 1987(2): 1. f. 1-2, 3: a-c, 6 [in part], 16: i-p, 17: i-o, 18: d-f, p-r, 19: a-m, 20: a, 21: a, 22: a. 1987.

Type: Norway. Sor-Trondelag: Midtre Gauldal, NW of Samsjoen, *Flatberg 90-84*. Holotype: TRH; isotypes: C, CANM, H, UBC. Other indicated distribution: Canada, U.S.A.

S. malaccense Warnstorf, Hedwigia 31: 175. pl. 16: f. 4-6. 1892.

Other use: *Sphagnum cuspidatum* var. *malaccense* (Warnstorf) Wijk & Margadant, 1965.

S. medium Limpricht, 1881.

S. medium var. *molle* Schliephacke in Röll, Flora 69: 423. 1886.

Other use: *Sphagnum magellanicum* var. *molle* (Schliephacke in Röll) Wijk & Margadant, 1965.

S. medium fo. *versicolor* Warnstorf, Bot. Gaz. (Crawfordsville) 15: 253. 1890.

Other use: *Sphagnum magellanicum* var. *versicolor* (Warnstorf) Wijk & Margadant, 1965.

S. microcuspidatum H. Crum, J. Hattori Bot. Lab. 63: 82. f. 24-30. 1987.

Type: Brazil. Rio Grande do Sul: Taimbe, Sao Francisco de Paula, 900 m, *Sehnem 6816*. Holotype: MICH; isotype: MO.

Original placement: sect. *Cuspidata*.

S. microporum Warnstorf ex Cardot, 1904.

S. microporum var. *junsaiense* Warnstorf, Pflanzenr. 51: 314 (Sphagnol. Univ. 314). 1911.

Other use: *Sphagnum subsecundum* var. *junsaiense* (Warnstorf) H. Crum, 1984.

S. mississippiense Andrus, Mem. New York Bot. Gard. 45: 237. f. 6: f. 1987, "*mississippiensis*."

Type: U.S.A. Mississippi: George Co., 10 km W of Pascagoula River on Miss. Rte. 26, *Reese 3027*. Holotype: US; isotype: LAF. Other indicated distribution: U.S.A. (Louisiana).

S. molluscoides C. Müller, Syn. Musc. Frond. 1: 99. 1848.

Other use: *Sphagnum tabulare* var. *molluscoides* (C. Müller) Pilous, 1971.

S. molluscum Bruch, 1825.

S. molluscum var. *hydrophilum* Warnstorf, Pflanzenr. 51: 275 (Sphagnol. Univ. 275). 1911.

Other use: *Sphagnum tenellum* var. *hydrophilum* (Warnstorf) Wijk & Margadant, 1965.

S. multifibrosum Li Xing-jiang & Zang Mu in Li Xing-jiang, Acta Bot. Yunnan. 6: 77. f. 1. 1984.

Type: China. Xizang: Yatung County, A-Sang, 2300-3200 m, *Zang 195*. Holotype: KUN.

Sphagnum, continued.

S. multiporosum H. Crum, J. Hattori Bot. Lab. 63: 78. f. 8-14. 1987.
Type: Brazil. Rio Grande do Sul: Taimba prope Sao Francisco de Paula, 900 m, *Sehnem 6818*. Holotype: MICH; isotype: MO. Paratype cited.
Original placement: sect. *Sphagnum*.

S. nemoreum Scopoli, 1772.

S. nemoreum var. *alpinum* (Milde) Wijk & Margadant, Taxon 14: 198. 1965.
Basionym: *Sphagnum acutifolium* var. *alpinum* Milde, 1869.

S. nemoreum var. *atroviride* (Schliephacke in Röll) Wijk & Margadant, Taxon 14: 198. 1965.
Basionym: *Sphagnum acutifolium* var. *atroviride* Schliephacke in Röll, 1884.

S. nemoreum var. *elegans* (Braithwaite) Wijk & Margadant, Taxon 14: 198. 1965.
Basionym: *Sphagnum acutifolium* var. *elegans* Braithwaite, 1880.

**S. nemoreum* var. *leptocladum* (Limpricht) Pilous, Fl. CSSR, C, Bryol. 1: 393. 1971.
*illegitimate, type of earlier name included (Article 63.1).
Basionym: *Sphagnum acutifolium* var. *leptocladum* Limpricht, 1885.
Earlier name: *Sphagnum acutifolium* var. *pulchellum* Warnstorf, 1884.

S. nemoreum var. *schimperi* (Warnstorf) Pilous, Fl. CSSR, C, Bryol. 1: 396. 1971.
Basionym: *Sphagnum acutifolium* var. *schimperi* Warnstorf, 1881.
Note: valid, error of bibliographic citation of basionym (Article 33.2), "*Sphagnum schimperi* Roell."

S. nemoreum var. *subtile* (Russell) Nyholm, Ill. Moss Fl. Fennoscandia. II. Musci 725. 1969.
Basionym: *Sphagnum acutifolium* var. *subtile* Russell, 1894.

S. nemoreum var. *tenerum* (Sullivant & Lesquereux ex Sullivant in A. Gray) Nyholm, Ill. Moss Fl. Fennoscandia. II. Musci 725. 1969.
Basionym: *Sphagnum tenerum* Sullivant & Lesquereux ex Sullivant in A. Gray, 1856.

S. nepalense H. Suzuki in Noguchi in H. Hara, Fl. E. Himalaya 1: 540. f. 32. 1966.
Type: Nepal. Mai Majuwa-Dhara Pani: 1500-1900 m, *Hara, Kanai, Kurosawa, Togashi & Tuyama 237569*. Holotype: NICH; isotype: TI.

S. ornatum H. Crum, Cryptog. Bryol. Lichénol. 6: 181. f. 1. 1985.
Type: Brazil. Cerro de la Neblina, Venezuelan-Brazilian frontier, Planicie de Zuloaga, Rio Titirico, 2300 m, *Steyermark 103890*. Holotype: MICH; isotype: NY.
Original placement: sect. *Sphagnum*.

S. pacificum Flatberg, Bryologist 92: 116. f. 1-20. 1989.
Type: Canada. British Columbia: Vancouver Island, Long Beach area, *Wade*, 1964. Holotype: UBC; isotype: TRH. Other indicated distribution: U.S.A. (Alaska, Washington).
Original placement: [sect. ?] *Cuspidata*.

Sphagnum, continued.

S. palustre Linnaeus, 1753.

S. palustre var. *centrale* (C. E. O. Jensen) A. Eddy in R. E. Daniels & A. Eddy, Handb. Eur. Sphagna 50. 1985.
Basionym: *Sphagnum centrale* C. E. O. Jensen, 1896.

S. palustre subsp. *pseudocymbifolium* (C. Müller) A. Eddy, Bull. Brit. Mus. (Nat. Hist.), Bot. 5: 376. 1977.
Basionym: *Sphagnum pseudocymbifolium* C. Müller, 1874.

S. palustre var. *schliephackeanum* (Röll) Wijk & Margadant, Taxon 14: 198. 1965.
Basionym: *Sphagnum glaucum* var. *schliephackeanum* Röll, 1891.

S. pappeanum C. Müller, Syn. Musc. Frond. 1: 101. 1848.
Other use: *Sphagnum strictum* var. *pappeanum* (C. Müller) A. Eddy, 1977.

S. parcoramosum H. Crum, J. Hattori Bot. Lab. 63: 87. f. 47-53. 1987.
Type: Brazil. Rio Grande do Sul: Fortaleza, Cambara do Sul, 1200 m, *Sehnem 15690*. Holotype: MO.
Original placement: sect. *Subsecunda*.

S. pendulirameum H. Crum, J. Hattori Bot. Lab. 63: 93. f. 78-86. 1987.
Type: Brazil. Espirito Santo: distrito de Vila Velha, *Sucre 4639*. Holotype: MICH; isotypes: MO, RB.
Original placement: sect. *Acutifolia*.

S. planifolium C. Müller, 1887.

S. planifolium var. *angustilimbatum* (Warnstorf) A. Eddy, Bull. Brit. Mus. (Nat. Hist.), Bot. 12: 148. 1985.
Basionym: *Sphagnum angustilimbatum* Warnstorf, 1895.

S. planifolium var. *rugegense* (Warnstorf in Mildbraed) A. Eddy, Bull. Brit. Mus. (Nat. Hist.), Bot. 12: 148. 1985.
Basionym: *Sphagnum rugegense* Warnstorf in Mildbraed, 1910.

S. poasense H. Crum, Bryologist 92: 102. f. 24-30. 1989.
Type: Costa Rica. Alajuela: Volcan Poas, *Richards 6036*. Holotype: MICH.
Original placement: sect. *Cuspidata*.

S. pseudocymbifolium C. Müller, Linnaea 38: 547. 1874.
Other use: *Sphagnum palustre* subsp. *pseudocymbifolium* (C. Müller) A. Eddy, 1977.

S. pseudoramulinum H. Crum, J. Hattori Bot. Lab. 63: 88. f. 54-61. 1987.
Type: Brazil. Rio de Janeiro: Planalto de Itatiaia, subida das Agulhas Negras, 2400-2500 m, *Sucre 4673*. Holotype: MICH; isotypes: MO, RB.

S. pulvinatum H. Crum, Cryptog. Bryol. Lichénol. 6: 183. f. 2. 1985.
Type: Brazil. Cerro de la Neblina, Venezuelan-Brazilian Frontier, Planicie de la Zuloaga, Rio Titirico, 2300 m, *Steyermark 103911*. Holotype: MICH; isotype: NY.
Original placement: sect. *Acutifolia*.

*+*S. rarum* V. Sauer, Trudy Vsesojuzn. Nauchno-Issl. Geol. Razved. Inst. 239: 59. 1964.

*invalid, basionym not cited (Article 33.2)

Sphagnum, continued.

S. recurvum Palisot de Beauvois, 1805.

S. recurvum var. *angustifolium* Warnstorf in S. M. Møller & Binstead, Nyt Mag. Naturvidensk. 31: 213. 1888.

Other use: *Sphagnum fallax* var. *angustifolium* (Warnstorf in S. M. Møller & Binstead) Nyholm, 1969.

S. recurvum var. *fibrosum* Schliephacke in Warnstorf, Flora 67: 608. 1884.

Other use: *Sphagnum flexuosum* fo. *fibrosum* (Schliephacke in Warnstorf) Margadant & During, 1982.

Note: valid by reference to description in Hedwigia 23: 123. 1884.

S. recurvum var. *porosum* Schliephacke & Warnstorf, Flora 67: 482. pl. 6: f. 26. 1884.

Other use: *Sphagnum annulatum* var. *porosum* (Schliephacke & Warnstorf) Maass & Isoviita, 1967 [1968].

S. recurvum var. *tenue* Klinggräff, Schriften Königl. Phys.-Ökon. Ges. Königsberg 13: 5. 1872.

Other use: *Sphagnum flexuosum* var. *tenue* (Klinggräff) Pilous, 1971.

+*S. regium* Drozhastchich, Trudy Vsesojuzn. Nauchno-Issl. Geol. Inst. 117: 18. pl. 2: 1-3. 1961.

Note: not in Index Muscorum.

S. richardsianum H. Crum, Contr. Univ. Michigan Herb. 11: 281. f. 1-5. 1978.

Type: Mexico. Oaxaca: along Highway 175, E side of Sierra de Juarez, between Oaxaca and Tuxtepec, *Smith et al. 358Bc*. Holotype: MICH.

S. rubellum Wilson, Bryol. Brit. 19. pl. 60. 1855.

Other use: *Sphagnum capillifolium* var. *rubellum* (Wilson) A. Eddy in R. E. Daniels & A. Eddy, 1985.

S. rubellum var. *leptocladum* (Limpricht) Wijk & Margadant, Taxon 14: 198. 1965.

Basionym: *Sphagnum acutifolium* var. *leptocladum* Limpricht, 1885.

S. rubroflexuosum Andrus, Bryologist 91: 364. f. 1-8. 1988.

Type: U.S.A. Pennsylvania: McKean Co., town of Sergeant, 4 km W of Clermon, *Andrus 5731* (Sphagnoth. Bor.-Amer. 240). Holotype: ALTA. Paratypes cited.

Original placement: sect. *Cuspidata*.

S. rugegense Warnstorf in Mildbraed, Wiss. Erg. Deut. Zentr.-Afr. Exped., Bot. 2: 135. 1910.

Other use: *Sphagnum planifolium* var. *rugegense* (Warnstorf in Mildbraed) A. Eddy, 1985.

S. ruppinense Warnstorf, Hedwigia 47: 115. 1908.

Other use: *Sphagnum balticum* var. *ruppinense* (Warnstorf) Pilous, 1971.

S. schofieldii H. Crum, N. Amer. Fl., ser. 2, 11: 89. f. 56. 1984.

Type: Canada. British Columbia: Queen Charlotte Islands, Graham Island, Athlow Bay, Goose Cove, *Schofield 64344*. Holotype: MICH.

Sphagnum, continued.

S. sehnemii H. Crum, J. Hattori Bot. Lab. 63: 97. f. 95-101. 1987.
Type: Brazil. Rio Grande do Sul: Potreiro Novo Sao, Francisco de Paula, 850 m, *Sehnem 15965*. Holotype: MICH; isotype: MO.
Original placement: sect. *Acutifolia*.

S. skyense Flatberg, J. Bryol. 15: 101. f. 1-2. 1988.
Type: United Kingdom. Scotland: Isle of Skye, Strath Suardal, *Flatberg*, 1987. Holotype: TRH; isotypes: GL, H, TRH.
Original placement: sect. *Acutifolia*.

S. slooveri A. Eddy, Bull. Brit. Mus. (Nat. Hist.), Bot. 12: 151. f. 44. 1985.
Type: Burundi. Tourbiere d'Ijenda, 1950 m, *Sloover 19181*. Holotype: BM; isotype: NAM.
Original placement: sect. *Cuspidata*.

S. splendens Maass, Bryologist 70: 193. f. 1-4. 1967.
Type: Canada. Quebec: 50 miles W of Chapais, *Maass*, 1965. Holotype: herb. Maass.

S. squarrosum Crome in Hoppe, 1803.

S. squarrosum var. *laxum* Braithwaite, Sphagnac. Eur. 61. 1880.
Other use: *Sphagnum fimbriatum* var. *laxum* (Braithwaite) Wijk & Margadant, 1965.

S. steerei Andrus, Bryologist 91: 137. 1988.
Replaced name: *Sphagnum imbricatum* var. *arcticum* Flatberg, 1984.
Blocking name: *Sphagnum arcticum* Flatberg & Frisvoll, 1984.
Note: invalid, basionym not cited (Article 33.2), in Bryologist 90: 218. 1987 [1988].

S. strictum Sullivant, 1846.

S. strictum var. *pappeanum* (C. Müller) A. Eddy, Bull. Brit. Mus. (Nat. Hist.), Bot. 5: 433. 1977.
Basionym: *Sphagnum pappeanum* C. Müller, 1848.

S. subbicolor Hampe, 1876.

S. subbicolor var. *carneum* (Warnstorf) Wijk & Margadant, Taxon 14: 198. 1965.
Basionym: *Sphagnum cymbifolium* var. *carneum* Warnstorf, 1899.

S. subdivisum H. Crum, Bryologist 92: 98. f. 9-16. 1989.
Type: Costa Rica. San Jose: Laguna de la Chonta, *Standley 42337*. Holotype: NY. Paratypes cited.
Original placement: sect. *Acutifolia*.

S. subfulvum Sjörs, 1944.

S. subfulvum subsp. *purpureum* Flatberg, Lindbergia 11: 50. f. 31-34. 1985.
Type: Norway. Sor-Trondelag Co.: Rennebu, W of Finnvasspiken,700 m, *Flatberg*, 1981. Holotype: TRH.

S. subnitens Russow & Warnstorf, 1888.

S. subnitens subsp. *ferrugineum* Flatberg, Lindbergia 11: 50. f. 35-38. 1985.
Type: Norway. More and Romddal Co.: Fraena, Myrbostadsetra, 70-90 m, *Flatberg*, 1980. Holotype: TRH.

Sphagnum, continued.

S. subrecurvum Warnstorf, Allg. Bot. Z. Syst. 1: 134. 1895.
Other use: *Sphagnum cuspidatum* subsp. *subrecurvum* (Warnstorf) A. Eddy, 1977.

S. subsecundum Nees in Sturm, 1819 [Apr].

S. subsecundum var. *andrusii* H. Crum, N. Amer. Fl., ser. 2, 11: 62. f. 36. 1984.
Type: Canada. British Columbia: Queen Charlotte Islands, Moresby Island, Moresby Lake, 132°06' W, 52° N, *Andrus & Vitt 3374*. Holotype: MICH.

S. subsecundum var. *carolinianum* (Andrus) H. Crum, N. Amer. Fl., ser. 2, 11: 65. 1984.
Basionym: *Sphagnum carolinianum* Andrus, 1983.

S. subsecundum subsp. *inundatum* (Russell) A. Eddy, J. Bryol. 9: 313. 1977.
Basionym: *Sphagnum inundatum* Russell, 1894.

S. subsecundum var. *junsaiense* (Warnstorf) H. Crum, N. Amer. Fl., ser. 2, 11: 61. 1984.
Basionym: *Sphagnum microporum* var. *junsaiense* Warnstorf, 1911.

S. subsecundum var. *leptocladum* (G. Roth) Wijk & Margadant, Taxon 14: 198. 1965.
Basionym: *Sphagnum turgidum* var. *leptocladum* G. Roth, 1906.

S. subsecundum fo. *rufescens* (Nees & Hornschuch) Nyholm, Ill. Moss Fl. Fennoscandia. II. Musci 763. 1969.
*invalid, basionym not cited (Article 33.2).

S. sucrei H. Crum, J. Hattori Bot. Lab. 63: 91. f. 70-77. 1987.
Type: Brazil. Guanabara: Alto de Pedra da Gavea, 800 m, *Sucre 4328*. Holotype: MICH; isotypes: MO, RB. Paratypes cited.
Original placement: sect. *Subsecunda*.

S. tabulare Sullivant, 1846.

S. tabulare var. *molluscoides* (C. Müller) Pilous, Fl. CSSR, C, Bryol. 1: 356. 1971.
Basionym: *Sphagnum molluscoides* C. Müller, 1848.

S. tenellum Ehrhart ex G. F. Hoffmann, 1796.

S. tenellum var. *hydrophilum* (Warnstorf) Wijk & Margadant, Taxon 14: 198. 1965.
Basionym: *Sphagnum molluscum* var. *hydrophilum* Warnstorf, 1911.

S. tenerum Sullivant & Lesquereux ex Sullivant in A. Gray, Manual (ed. 2) 611. 1856.
Other use: *Sphagnum capillaceum* var. *tenerum* (Sullivant & Lesquereux ex Sullivant in A. Gray) H. Crum, 1971, *Sphagnum capillifolium* var. *tenerum* (Sullivant & Lesquereux ex Sullivant in A. Gray) H. Crum, 1975, *Sphagnum nemoreum* var. *tenerum* (Sullivant & Lesquereux ex Sullivant in A. Gray) Nyholm, 1969.

S. teres (Schimper) Ångström in C. J. Hartman, 1861.

S. teres var. *concinnum* Berggren, Kongl. Svenska Vetensk. Acad. Handl. 13(7): 94. 1875.
Other use: *Sphagnum fimbriatum* subsp. *concinnum* (Berggren) Flatberg & Frisvoll, 1984.

Sphagnum, continued.

S. trirameum H. Crum, Bryologist 92: 104. f. 31-37. 1989.
Type: Guatemala. Baja Verapaz: Civija, 2700 feet, *Sharp 5143*. Holotype: MICH; isotype: MO.
Original placement: sect. *Subsecunda*.

S. troendelagicum Flatberg, Lindbergia 14: 33. f. 1-2. 1988.
Type: Norway. Nord-Trondelag: Hoylandet, Royrtjorna, *Flatberg 20-86*. Holotype: TRH; isotypes: H, NY.
Original placement: sect. *Cuspidata*.

S. truncatum Hornschuch, 1841.

**S. truncatum* var. *bordasii* (Bescherelle) A. Eddy, Bull. Brit. Mus. (Nat. Hist.), Bot. 12: 106. 1985.
*illegitimate, type of earlier name included (Article 63.1).
Basionym: *Sphagnum bordasii* Bescherelle, 1880.
Earlier name: *Sphagnum oligodon* var. *bachmanii* Warnstorf, 1911.

S. tumidulum Bescherelle, 1880.

S. tumidulum var. *confusum* A. Eddy, Bull. Brit. Mus. (Nat. Hist.), Bot. 12: 120. f. 23. 1985.
Type: Reunion. Plaine de Palmiste, *Bory s.n.* Holotype: BM-Schimper.
Original placement: subsect. *Acrosphagnum*.

**S. turgidum* (Brid.) Röll, 1886.
*illegitimate, type of earlier name included (Article 63.1).

S. turgidum var. *leptocladum* G. Roth, Eur. Torfm. 67. 1906.
Other use: *Sphagnum subsecundum* var. *leptocladum* (G. Roth) Wijk & Margadant, 1965.

S. viridum Flatberg, Kongel. Norske Vidensk. Selsk. Skr. [1970+] 1988(1): 9. f. 1-2, 6: a, 7, 15-16, 17: m-x, 18, 19: b, 20: b, 21: a,c, 22: k-x. 1988.
Type: Norway. More & Romsdal county, Fraena, NE of Soholt, 25-35 m, LQ 98-99, 74-75 (UTM reference), *Flatberg*, 1980. Holotype: TRH; isotypes: H, NICH, NY, UBC.

S. wilfii H. Crum, N. Amer. Fl., ser. 2, 11: 90. f. 57. 1984.
Type: Canada. British Columbia: Queen Charlotte Islands, W Graham Island, Athlow Bay, Goose Cove area, 53°35' N, 132°55' W, *Schofield 33974*. Holotype: MICH.

Splachnobryum C. Müller, 1869.

S. bengalense Gangulee, Mosses E. India 4: 865. f. 412. 1974.
Type: India. Konnagar prope Calcuttam, *Gangulee 6170*. Holotype: "herb. Gangulee."

S. limbatum Norris & Zander, Bryologist 84: 404. f. 1-6. 1981.
Type: Solomon Islands. San Cristobal: in lowland forest along Puepue Creek above Kira-Kira, *Norris & Roberts 49140*. Holotype: US; isotypes: BSIP, BUF, HSC, TENN.

S. stuartii H. O. Whittier in H. A. Miller, H. O. Whittier & Bonner, Beih. Nova Hedwigia 11: 28. 1963.
Type: Caroline Islands. Ifaluk, *Miller & Whittier 7551*. Holotype: BISH.

Splachnobryum, continued.
S. synoicum H. Robinson, J. Hattori Bot. Lab. 27: 127. f. 8-9. 1964.
Type: India. Upper Assam, Chabna, *Cole 98*. Holotype: US; isotype: TENN.
S. wattsii Brotherus, Oefers. Förh. Finska Vetensk.-Soc. 42: 99. 1899 [1900].
Other use: *Archidium wattsii* (Brotherus) Stone, 1984.

Splachnum Hedwig, 1801.
S. ampullaceum Hedwig, 1801.
S. ampullaceum var. *brevisetum* Gao Chien, Fl. Musc. Chin. Boreali-Orient. 380. f. 99. 1977.
Type: China. Heilongjiang: Da-chingan-ling Gen-ho, *Xei 94*. Holotype: IFP.
S. froelichianum Hedwig, 1801.
S. froelichianum var. *repandum* Hübener, Muscol. Germ. 86. 1833.
Other use: *Tayloria froelichiana* var. *repanda* (Hübener) Wijk & Margadant, 1965.
S. heterophyllum Drummond, Musci Amer., Brit. N. Amer. 37. 1828.
Other use: *Splachnum vasculosum* var. *heterophyllum* (Drummond) Brassard, 1971.
S. pensylvanicum (Bridel) Grout ex H. Crum, Bryologist 69: 206. 1966, "*pennsylvanicum*."
Basionym: *Mnium pensylvanicum* Bridel, 1817.
S. squarrosum W. J. Hooker, Trans. Linn. Soc. London, Bot. 9: 308. pl. 26: f. 2. 1808.
Other use: *Tayloria squarrosa* (W. J. Hooker) T. Koponen, 1974.
S. urceolatum Hedwig, Sp. Musc. Frond. 52. 1801.
Other use: *Tetraplodon mnioides* var. *urceolatus* (Hedwig) H. Crum, 1969.
S. vasculosum Hedwig, 1801.
S. vasculosum var. *heterophyllum* (Drummond) Brassard, Bryologist 74: 294. 1971.
Basionym: *Splachnum heterophyllum* Drummond, 1828.

Sporledera Hampe, Linnaea 11: 279. 1837.
Other use: *Pleuridium* sect. *Sporledera* (Hampe) Nyholm, 1986.
S. lindigiana Hampe, Ann. Sci. Nat. Bot., ser. 5, 3: 338. 1865.
Other use: *Pleuridium lindigianum* (Hampe) Churchill, 1988.
S. subenervis Hampe, Ann. Sci. Nat. Bot., ser. 5, 3: 337. 1865.
Other use: *Pleuridium subenerve* (Hampe) Churchill, 1989.

Squamidium (C. Mueller) Brotherus in Engler & Prantl, 1906.
S. angustifolium Sehnem, Pesquisas, Bot. 34: 6. pl. 1: a. 1980.
Type: Brazil. Rio Grande do Sul: Montenegro, Est. Sao Salvador, 600 m, *Sehnem 806*. Herbarium not specified by author.

Squamidium, continued.
S. biforme (Hampe) Brotherus, 1906.
S. biforme var. *congestum* (Renauld & Cardot) Een, Lindbergia 3: 215. 1976, "*congesta*."
Basionym: *Pilotrichella biformis* var. *congesta* Renauld & Cardot, 1902-03 [1905].
S. biforme var. *densirameum* (Brotherus) Bizot in Bizot & Pócs, Acta Bot. Acad. Sci. Hung. 28: 33. 1982.
Basionym: *Pilotrichella densiramea* Brotherus, 1894.
S. chiriquense Crosby, Ann. Missouri Bot. Gard. 58: 89. f. 1-3. 1971.
Type: Panama. Chiriqui: 2 miles S of Boquete, *Crosby 3975*. Holotype: MO; isotypes: DUKE, U.
S. cuspidatum Sehnem, Pesquisas, Bot. 34: 9. pl. 1: c. 1980.
Type: Brazil. Rio Grande do Sul: Vacaria, Rio dos Refugiados, Faz. do Cedro, 450 m, *Sehnem 14647d*. Herbarium not specified by author.
S. nigricans (W. J. Hooker in Kunth) Brotherus, 1906.
S. nigricans var. *pendulum* (Hampe) Pursell, Bryologist 76: 488. 1973.
Basionym: *Hypnum nigricans* var. *pendulum* Hampe, 1847.
S. pilotrichelloides Sehnem, Pesquisas, Bot. 34: 8. pl. 1: b. 1980.
Type: Brazil. Rio Grande do Sul: Jesus, Serra da Rocinha, 1000 m, *Sehnem 214*. Herbarium not specified by author.
Other use: *Orthostichopsis pilotrichelloides* (Sehnem) B. H. Allen & Crosby, 1986.

Steerecleus H. Robinson, Mem. New York Bot. Gard. 45: 480. 1987.
Type: *Hypnum serrulatum* Hedwig, *S. serrulatus* (Hedwig) H. Robinson, holotype.
Original placement: Brachytheciaceae.
S. argute-serratus (E. B. Bartram) H. Robinson, Mem. New York Bot. Gard. 45: 680. 1987.
Basionym: *Rhynchostegium argute-serratum* E. B. Bartram, 1936.
S. beskeanus (C. Müller) H. Robinson, Mem. New York Bot. Gard. 45: 681. 1987.
Basionym: *Hypnum beskeanum* C. Müller, 1857.
S. scariosus (Taylor) H. Robinson, Mem. New York Bot. Gard. 45: 681. 1987.
Basionym: *Hypnum scariosum* Taylor, 1846.
S. serrulatus (Hedwig) H. Robinson, Mem. New York Bot. Gard. 45: 681. 1987.
Basionym: *Hypnum serrulatum* Hedwig, 1801.

Steereobryon G. L. Smith, Mem. New York Bot. Gard. 21(3): 56. 1971.
Type: *Atrichum subulirostrum* W. P. Schimper ex Bescherelle, *S. subulirostrum* (W. P. Schimper ex Bescherelle) G. L. Smith, holotype.
Original placement: Polytrichaceae.
S. elamellosum (Herzog) Menzel in Schultze-Motel & Menzel, Beih. Nova Hedwigia 88: 57. 1987.
Basionym: *Catharinea elamellosa* Herzog, 1916.

Steereobryon, continued.
S. subulirostrum (W. P. Schimper ex Bescherelle) G. L. Smith, Mem. New York Bot. Gard. 21(3): 56. 1971.
Basionym: *Atrichum subulirostrum* W. P. Schimper ex Bescherelle, 1872.

Stegonia Venturi, 1883.
S. pilifera (Dickson) H. Crum & L. E. Anderson, Bryologist 92: 533. 1989.
Basionym: *Bryum piliferum* Dickson, 1801.
Note: valid, error of bibliographic citation of basionym (Article 33.2), "*Coscinodon piliera* Brid."

Stellariomnium M. C. Bowers, Lindbergia 6: 17. 1980.
Type: *Mnium stellare* Hedwig, *S. stellare* (Hedwig) M. C. Bowers, holotype.
Original placement: Mniaceae.
S. blyttii (Bruch & W. P. Schimper in B.S.G.) M. C. Bowers, Lindbergia 6: 17. 1980.
Basionym: *Mnium blyttii* Bruch & W. P. Schimper in B.S.G., 1846.
S. heterophyllum (W. J. Hooker) M. C. Bowers, Lindbergia 6: 17. 1980.
Basionym: *Bryum heterophyllum* W. J. Hooker, 1808.
S. stellare (Reichard ex Hedwig) M. C. Bowers, Lindbergia 6: 17. 1980.
Basionym: *Mnium stellare* Reichard ex Hedwig, 1801.

Stenodictyon (Mitten) Jaeger, 1877.
S. bisodalense B. H. Allen, Crosby & Magill, Lindbergia 11: 155. f. 1-9. 1986.
Type: Costa Rica. Dos Amigos area, near 73 km marker on Inter American Highway, SE of El Empalme, 2680 m, *Crosby & Crosby 5956*. Holotype: MO.
S. saxicola R. S. Williams, Bull. New York Bot. Gard. 6(21): 248. 1910.
Other use: *Hookeriopsis saxicola* (R. S. Williams) B. H. Allen, Crosby & Magill, 1986.
S. wrightii (Sullivant & Lesquereux) Crosby, Bryologist 79: 83. 1976.
Basionym: *Hookeria wrightii* Sullivant & Lesquereux, 1859.

Steppomitra Vondrácek & Hadac, Bull. Soc. Amis Sci. Lett. Poznan, Sér. D, Sci. Biol. 6: 117. 1965.
Type: *S. hadacii* Vondracek, holotype.
Original placement: Funariaceae.
S. hadacii Vondrácek, Bull. Soc. Amis Sci. Lett. Poznan, Sér. D, Sci. Biol. 6: 118. f. 1. 1965 [1966].
Type: Iraq. Steppa inter Hadhar et Sharqat, *Hadac*, 1961. Holotype: herb. Vondrácek; isotypes: BUH, herb. Boros.
S. hungarica (Boros) Vondrácek, Bull. Soc. Amis Sci. Lett. Poznan, Sér. D, Sci. Biol. 6: 118. 1965 [1966].
Basionym: *Funaria hungarica* Boros, 1925.

*Stereodon Mitten, 1859.
*illegitimate, type of earlier name included (Article 63.1).
Correct name: *Hypnum* Hedwig, 1801.
S. adscendens Lindberg, Contr. Fl. Crypt. As. [Acta Soc. Sci. Fenn. 10:] 255. 1872.
Other use: *Herzogiella adscendens* (Lindberg) Iwatsuki & Schofield, 1973.
S. alpicola Lindberg ex Lindberg & H. Arnell, Kongl. Svenska Vetensk. Acad. Handl. 23(10): 153. 1890.
Other use: *Isopterygiopsis alpicola* (Lindberg ex Lindberg & H. Arnell) Hedenäs, 1988, *Isopterygium alpicola* (Lindberg ex Lindberg & H. Arnell) Nyholm, 1969.
S. amblyostegus Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 97. 1859.
Other use: *Pylaisiadelpha amblyostega* (Mitten) Buck, 1984.
S. caperatus Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 97. 1859.
Other use: *Hondaella brachytheciella* var. *caperata* (Mitten) U. Mizushima & Ando in Ando, 1969.
S. distichaceus Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 105. 1859.
Other use: *Pseudotaxiphyllum distichaceum* (Mitten) Iwatsuki, 1987.
S. erythrocaulis Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 97. 1859.
Other use: *Pylaisiadelpha erythrocaulis* (Mitten) Buck, 1984.
S. extentus Mitten, J. Proc. Linn. Soc., Bot., Suppl., 1: 95. 1859.
Other use: *Pylaisiella extenta* (Mitten) Ando, 1979.
S. haldanianus (Greville) Lindberg ex Brotherus, 1892.
S. haldanianus var. *viridis* S. Okamura, J. Coll. Sci. Imp. Univ. Tokyo 36(7): 34. f. 17. 1915.
Other use: *Callicladium haldanianum* var. *viride* (S. Okamura) Iwatsuki & Noguchi, 1973.
S. harveyanus Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 102. 1859.
Replaced name: *Leskea curvirostris* Harvey in W. J. Hooker, 1836.
Blocking name: *Stereodon curvirostris* (Schwägrichen) Mitten, 1859.
Other use: *Pylaisiadelpha harveyana* (Mitten) Buck, 1984.
S. lepidus Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 98. 1859.
Other use: *Wijkia lepida* (Mitten) H. Crum, 1971.
S. lindbergii (Mitten) Braithwaite, 1902.
S. lindbergii var. *nivalis* Podpera, Beih. Bot. Centralbl. 28(2): 222. 1911.
Other use: *Hypnum lindbergii* var. *nivale* (Podpera) Wijk & Margadant, 1968.
S. luzonensis Brotherus, Philipp. J. Sci. 3: 28. 1908.
Other use: *Pylaisiadelpha luzonensis* (Brotherus) Buck, 1984.
S. nictans Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 98. 1859.
Other use: *Pylaisiadelpha nictans* (Mitten) Buck, 1984.
S. penicillatus Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 112. 1859.
Other use: *Wijkia penicillata* (Mitten) H. Crum, 1971.
S. perpinnatus Brotherus, Nat. Pflanzenfam. 1(3): 1068. f. 764. 1908.
Other use: *Pylaisiadelpha perpinnata* (Brotherus) Buck, 1984.
S. psilurus Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 112. 1859.
Other use: *Macrothamnium psilurum* (Mitten) Noguchi, 1972.

Stereodon, continued.
S. recurvatus Lindberg & H. Arnell, Kongl. Svenska Vetensk. Acad. Handl. 23(10): 149. 1890.
Other use: *Hypnum bridelianum* var. *recurvatum* (Lindberg & H. Arnell) Nyholm, 1969.
S. renitens Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 94. 1859.
Other use: *Herzogiella renitens* (Mitten) Iwatsuki, 1970, *Sharpiella renitens* (Mitten) Ando, 1969.
S. serrifolius Brotherus & Paris, Oefers. Förh. Finska Vetensk.-Soc. 53A(11): 35. 1911.
Other use: *Hypnum subchrysogaster* var. *serrifolium* (Brotherus & Paris) Ando, 1976 [1977].
S. setschwanicus Brotherus, Symb. Sin. 4: 123. 1929.
Other use: *Hypnum setschwanicum* (Brotherus) Ando, 1973, *Stereodontopsis setschwanica* (Brotherus) Ando, 1969.
S. speciosus Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 95. 1859.
Other use: *Aptychella speciosa* (Mitten) Tixier, 1977.
S. subfalcatus (B.S.G.) Fleischer in Brotherus, 1925.
S. subfalcatus var. *recurvatulus* Brotherus, Symb. Sin. 4: 123. 1929.
Other use: *Pylaisiella falcata* var. *recurvatula* (Brotherus) Ando, 1978.
S. surcularis Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 112. 1859.
Other use: *Wijkia surcularis* (Mitten) H. Crum, 1971.
S. tenuirameus Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 94. 1859.
Other use: *Aptychella tenuiramea* (Mitten) Tixier, 1977.
S. vernicosus Mitten, J. Proc. Linn. Soc., Bot. 8: 43. 1864.
Replaced name: *Hypnum vernicosum* Lindberg in C. J. Hartman, 1861.
Blocking name: *Hypnum vernicosum* Hampe, 1836.
Other use: *Hamatocaulis vernicosus* (Mitten) Hedenäs, 1989, *Scorpidium vernicosum* (Mitten) Tuomikoski, 1973.
Note: new name, based on adoption of earlier epithet (Article 72.Note 1).
S. yokohamae Brotherus, Hedwigia 38: 235. 1899.
Other use: *Pylaisiadelpha yokohamae* (Brotherus) Buck, 1984.

Stereodontopsis R. S. Williams, 1917.
S. excavata (Brotherus in Rechinger) Ando, Hikobia 6: 43. 1971.
Basionym: *Ectropothecium excavatum* Brotherus in Rechinger, 1908.
S. pseudorevoluta (Reimers) Ando, Hikobia 3: 295. 1963.
Basionym: *Hypnum pseudorevolutum* Reimers, 1931.
S. setschwanica (Brotherus) Ando, Hikobia 5: 184. 1969.
Basionym: *Stereodon setschwanicus* Brotherus, 1929.

Stereohypnum (Hampe) Fleischer, 1908.
S. burelae Herzog, Beih. Bot. Centralbl. 26: 84. 1910.
Other use: *Mittenothamnium burelae* (Herzog) F. J. Hermann, 1976.

Stereophyllum Mitten, 1859.

S. angustirete Brotherus, Bih. Kongl. Svenksa Vetensk.-Akad. Handl. 26 Afd. 3(7): 52. 1900.

Other use: *Entodontopsis angustiretis* (Brotherus) Buck & Ireland, 1985.

S. favaroi Tosco & Piovano, Allionia 4: 156. f. 29-31. 1956.

Original placement: sect. *Moneurium*.

Note: not in Index Muscorum.

S. homalioides Bescherelle, 1891.

S. homalioides var. *bellirete* Herzog, Feddes Repert. Spec. Nov. Regni Veg. 55: 25. 1952.

Other use: *Entodontopsis nitens* var. *belliretis* (Herzog) Buck & Ireland, 1985.

S. ligulatum Jaeger, 1880.

S. ligulatum var. *sedgwickii* Brotherus & Dixon, Rec. Bot. Surv. India 6: 84. pl. 2: f. 8. 1914.

Other use: *Entodontopsis sedgwickii* (Brotherus & Dixon) Buck & Ireland, 1985.

S. mexicanum R. S. Williams, Bryologist 26: 34. pl. 4. 1923.

Other use: *Entodontopsis mexicana* (R. S. Williams) Buck & Ireland, 1985.

S. nipponense Sakurai, Bot. Mag. (Tokyo) 48: 396. 1934.

Other use: *Eurhynchium nipponense* (Sakurai) Iwatsuki & Noguchi, 1973.

S. nitens Mitten, Trans. Linn. Soc. London 23: 51. pl. 5: f. 3. 1860.

Other use: *Entodontopsis nitens* (Mitten) Buck, 1985.

S. panamense E. B. Bartram in H. Crum & Arzeni, Rev. Bryol. Lichénol. 22: 158. 1953.

Other use: *Entodontopsis panamensis* (E. B. Bartram in H. Crum & Arzeni) Buck & Ireland, 1985.

S. papilliferum Mitten, J. Linn. Soc., Bot. 12: 544. 1869.

Other use: *Entodontopsis papillifera* (Mitten) Buck & Ireland, 1985.

S. pygmaeum Paris & Brotherus, Rev. Bryol. 34: 48. 1907.

Other use: *Entodontopsis pygmaea* (Paris & Brotherus) Buck & Ireland, 1985.

S. rhynchostegioides Brotherus & Paris in Paris, Rev. Bryol. 35: 60. 1908.

Other use: *Entodontopsis rhynchostegioides* (Brotherus & Paris in Paris) Buck & Ireland, 1985.

S. rufescens Brotherus, Bot. Jahrb. Syst. 20: 210. 1894.

Other use: *Entodontopsis rufescens* (Brotherus) Buck & Ireland, 1985.

S. setschwanicum Brotherus, Sitzungsber. Kaiserl. Akad. Wiss. Math.-Naturwiss. Cl. , Abt. 1, 133: 581. 1924.

Other use: *Entodontopsis setschwanica* (Brotherus) Buck & Ireland, 1985.

S. tenuinerve Brotherus in Paris, Rev. Bryol. 31: 48. 1904.

Other use: *Entodontopsis tenuinervis* (Brotherus in Paris) Buck & Ireland, 1985.

**S. wattsii* Brotherus in H. P. Ramsay, Taxon 29: 468. 1980.

*invalid, no Latin description (Article 36.1).

S. woodii (Sim) Magill in Magill & Schelpe, Mem. Bot. Surv. South Africa 43: 7. 1979.

Basionym: *Porothamnium woodii* Sim, 1926.

Steyermarkiella H. Robinson, Acta Bot. Venez. 1: 75. 1965.
Type: *S. anomalodictya* H. Robinson, holotype.
Original placement: Dicranaceae?
S. anomalodictya H. Robinson, Acta Bot. Venez. 1: 75. f. 13-16. 1965.
Type: Venezuela. Bolivar: Cerro Venamo, fila oeste del afluente derecho (oeste), subiendo el Rio Venamo, 1000 m, *Steyermark & Dunsterville 92266*. Holotype: US; isotype: VEN.

***Stokesiella** (Kindberg) H. Robinson, Bryologist 70: 39. 1967.
*illegitimate, later homonym (Article 64.1).
Basionym: *Eurhynchium* subgen. *Stokesiella* Kindberg, 1897.
Earlier name: *Stokesiella* Lemmermann, 1908.
Correct name: *Kindbergia* Ochyra, 1982.
S. arbuscula (Brotherus) H. Robinson, Bryologist 70: 39. 1967.
Basionym: *Eurhynchium arbuscula* Brotherus, 1909.
S. arbuscula var. *acuminata* (Takaki) Takaki & Iwatsuki in Iwatsuki & Noguchi, J. Jap. Bot. 48: 217. 1973.
Basionym: *Eurhynchium arbuscula* var. *acuminatum* Takaki, 1956.
S. brittoniae (Grout) H. Robinson, Bryologist 70: 39. 1967.
Basionym: *Eurhynchium brittoniae* Grout, 1898.
S. oregana (Sullivant) H. Robinson, Bryologist 70: 39. 1967.
Basionym: *Hypnum oreganum* Sullivant, 1849.
S. praelonga (Hedwig) H. Robinson, Bryologist 70: 39. 1967.
Basionym: *Hypnum praelongum* Hedwig, 1801.
S. praelonga var. *californica* (Grout) H. Crum, Bryologist 72: 245. 1969.
Basionym: *Eurhynchium praelongum* var. *californicum* Grout, 1898.
S. praelonga subsp. *oregana* (Sullivant) Persson & Schofield in Persson & Viereck, Lindbergia 9: 17. 1983.
Basionym: *Hypnum oreganum* Sullivant, 1849.
S. praelonga var. *stokesii* (Turner) H. Crum, Bryologist 72: 245. 1969.
Basionym: *Hypnum stokesii* Turner, 1804.

Stonea Zander, Phytologia 65: 431. 1989.
Type: *Tortula oleaginosa* Stone, holotype.
Original placement: Pottiaceae.
S. oleaginosa (Stone) Zander, Phytologia 65: 432. 1989.
Basionym: *Tortula oleaginosa* Stone, 1978.

Stoneobryum Norris & H. Robinson, Bryologist 84: 96. 1981.
Type: *S. bunyaense* Norris & H. Robinson, holotype.
Original placement: Orthotrichaceae.
S. bunyaense Norris & H. Robinson, Bryologist 84: 96. f. 1-10. 1981.
Type: Australia. Queensland: Bunya Mtns. Natl. Pk., 1000-1200 m, *Norris 35310*. Holotype: BRI; isotypes: HSC, US.
S. mirum (Lewinsky) Norris & H. Robinson, Bryologist 84: 98. 1981.
Basionym: *Orthotrichum mirum* Lewinsky, 1978.

Streblotrichum Palisot de Beauvois, 1804.
S. croceum (Bridel) Loeske, 1909.
S. croceum var. *carpaticum* Pilous, Preslia 41: 120. f. 1: 4. 1969.
Type: Czechoslovakia. Slovakia: Strazovska hornatina, prope pag. Sulov, *Pilous s.n.* Holotype: herb. Pilous.
S. croceum var. *dichodontioides* Pilous, Preslia 41: 121. f. 1: 1. 1969.
Type: Czechoslovakia. Slovakia: Mala Fatra, dolina Vratna, *Pilous s.n.* Holotype: herb. Pilous.
S. croceum var. *grimmioides* Pilous, Preslia 41: 121. f. 1: 3. 1969.
Type: Czechoslovakia. Slovakia: Mala Fatra, Rozsutec, 1370 m, *Pilous s.n.* Holotype: herb. Pilous.
S. croceum fo. *lingulatum* Pilous, Preslia 41: 121. 1969.
Type: Czechoslovakia. Slovakia: Mala Fatra, Suchy, 1400 m, *Pilous s.n.* Holotype: herb. Pilous.
S. propaguliferum Li Xing-jiang & Zhang Man-xiang, Acta Bot. Yunnan. 5: 385. f. 1. 1983.
Type: China. Shanxi: Chinling (Qin-Ling) Mts., Hu Xian, Shi Jing Cun, Su Yu Gou-Hei Hu Zui Mts., 1600 m, *Wei 4349*. Holotype: WUK; isotype: KUN.

Streptocalypta C. Müller, 1879.
S. santosii (E. B. Bartram) Zander, Lindbergia 8: 165. 1982 [1983].
Basionym: *Tortella santosii* E. B. Bartram, 1947.
S. tortelloides (Cardot) Zander, Lindbergia 8: 163. 1982 [1983].
Basionym: *Barnesia tortelloides* Cardot, 1910.

Streptopogon Wilson ex Mitten, 1851.
S. juarezii A. J. Sharp, Phytologia 61: 372. 1986.
Type: Mexico. Veracruz: 21 km la oeste de Xalapa, 1700 m, *Juarez G. 672*. Holotype: TENN; isotype: INIREB.
S. rzedowskii Cardenás-Soriano, Phytologia 61: 297. f. 1-7. 1986.
Type: Mexico. 20 km E de Amecameca, *Cardenas 3943*. Holotype: MEXU; isotype: TENN.

Strombulidens Buck, Brittonia 33: 454. 1981.
Type: *Cheilothela longirostris* Fleischer, *S. longirostris* (Fleischer) Buck, holotype.
Original placement: Ditrichaceae.
S. longirostris (Fleischer) Buck, Brittonia 33: 454. 1981.
Basionym: *Cheilothela longirostris* Fleischer, 1904.

Struckia C. Müller, 1893.
S. griffithii C. Müller, Arch. Vereins Freunde Naturgesch. Mecklenburg 47: 130. 1893.
Other use: *Bryum argenteum* var. *griffithii* (C. Müller) Gangulee, 1974.

Symblepharis Montagne, 1837.
**S. hookeri* Wilson, 1857.
*illegitimate, type of earlier name included (Article 63.1).
S. hookeri var. *macrospora* Wilson, Kew J. Bot. 9: 492. 1857.
Other use: *Symblepharis vaginata* var. *macrospora* (Wilson) Wijk & Margadant, 1965.
S. vaginata (Wilson) Wijk & Margadant, 1959.
S. vaginata var. *macrospora* (Wilson) Wijk & Margadant, Taxon 14: 198. 1965.
Basionym: *Symblepharis hookeri* var. *macrospora* Wilson, 1857.

Symphyodon Montagne, 1841.
S. americanus Steere, Brittonia 34: 438. f. 20-27. 1982.
Type: Colombia. Santander: in Cinchona forest E of Rio Valegra, Cornejo region, Cordillera Oriental, 6000-7000 feet, *Steere 7534*. Holotype: NY; isotype: FH.
S. asper (Mitten) Jaeger, 1878.
S. asper var. *mamosum* Dixon ex Gangulee, Mosses E. India 6: 1527. f. 766: 2. 1977.
Type: India. Eastern Himalaya, Builfa, [collector of type apparently not indicated on label]. Holotype: BM-Dixon.
Note: lack of information on the type specimen prevented the author's citing a locality and collector, and this name should be treated as valid and an exception to Article 37.3.
S. gollanioides Noguchi, Lindbergia 1: 180. f. 4. 1972.
Type: Thailand. Payap, Kun Kawng San, 1700 m, *Kansen et al. 11428*. Holotype: C; isotype: herb. Noguchi.
S. japonicus Cardot, Bull. Soc. Bot. Genève 4: 378. 1912.
Other use: *Gollania japonica* (Cardot) Ando, 1981.
S. sutepensis Tixier, Rev. Bryol. Lichénol. 38: 154. f. 5. 1971-72 [1972].
Type: Thailand. Chieng Mai, Doi Sutep, 1300 m, *Tixier*, 1965. Herbarium not specified by author.
S. sutepensis var. *scaber* Tixier, Rev. Bryol. Lichénol. 38: 156. 1971-72 [1972].
Type: Thailand. Nakhorn Rachasima, Khao Khieo, 1300 m, *Tixier 317*. Herbarium not specified by author. Paratypes cited.
S. umesaoi Horikawa & Ando in Kira & Umesao, Nat. & Life Southe. Asia 3: 26. f. 6. 1964.
Type: Thailand. Doi inthanon, 2000-2300 m, *Umesao 67626*. Holotype: HIRO.

Symphysodon Dozy & Molkenboer, 1844.
S. integrifolius E. B. Bartram, Rev. Bryol. Lichénol. 30: 198. 1961.
Other use: *Calyptothecium integrifolium* (E. B. Bartram) Noguchi, 1980.
S. langbianensis Tixier, Rev. Bryol. Lichénol. 37: 736. f. 6. 1970 [1971], "*langbianense*."
Type: Vietnam. Tuyen Duc, Mont Lang Bian, 1900 m, *Tixier 350*. Herbarium not specified by author.

Symphysodon, continued.
S. siamensis Tixier, Rev. Bryol. Lichénol. 38: 152. f. 4. 1971-72 [1972].
Type: Thailand. Nakhorn Ratchasima, Khao Khiel, 1300 m, *Tixier 1100*. Herbarium not specified by author.
S. squarrosus Tixier, Rev. Bryol. Lichénol. 37: 738. f. 7. 1970 [1971], "*squarrosum*."
Type: Vietnam. Tuyen Duc, Vallee du De Tria, 1200 m, *Tixier 351*. Herbarium not specified by author.

Symphysodontella Fleischer, 1906.
S. sect. *Attenuatula* Magill, J. Hattori Bot. Lab. 48: 53. 1980.
Type: *S. altenuatula* Fleischer, holotype.
S. attenuatula Fleischer, 1908.
S. attenuatula var. *pendula* Fleischer, Musci Buitenzorg 3: 697. 1908.
Note: not in Index Muscorum.
S. borii Dixon, J. Bombay Nat. Hist. Soc. 39: 781. pl. 1: f. 7. 1937.
Other use: *Myurium borii* (Dixon) Magill, 1980.
S. dimorpha Dixon, Ann. Bryol. 7: 29. 1934.
Other use: *Trachyloma dimorpha* (Dixon) Magill, 1980.
S. obtusa Tixier, Rev. Bryol. Lichénol. 37: 738. f. 8. 1970 [1971].
Type: Vietnam. Tuyen Duc, Mont Lang Bian, 1900 m, *Tixier 254*. Herbarium not specified by author.
S. pilifolia Dixon, J. Bombay Nat. Hist. Soc. 39: 782. pl. 1: f. 8. 1937.
Other use: *Pterobryopsis pilifolia* (Dixon) Magill, 1980.

Synodontia (Duby ex Bescherelle) Brotherus in Engler & Prantl, 1901.
S. aneitensis Brotherus & Watts, J. & Proc. Roy. Soc. New South Wales 49: 127. 1915.
Other use: *Dicnemon aneitense* (Brotherus & Watts) B. H. Allen, 1989.
S. cochlearifolia Thériot, Bull. Acad. Int. Géogr. Bot. 20: 97. 1910.
Other use: *Dicnemon cochlearifolium* (Thériot) B. H. Allen, 1987.
S. seriata Brotherus & Paris, Oefers. Förh. Finska Vetensk.-Soc. 48: 6. 1906.
Other use: *Dicnemon seriatum* (Brotherus & Paris) B. H. Allen, 1987.
S. subpilifera Brotherus & Paris, Oefers. Förh. Finska Vetensk.-Soc. 48: 6. 1906.
Other use: *Dicnemon subpiliferum* (Brotherus & Paris) B. H. Allen, 1987.

Synthetodontium Cardot, 1909.
S. costaricense A. J. Shaw & H. Crum, Contr. Univ. Michigan Herb. 15: 214. f. 17-26. 1982.
Type: Costa Rica. Cartago: S slope of Mt. Irazu, Roberts' Farm, ca. 10,000 feet, *Svihla 2749*. Holotype: FH.
Other use: *Schizymenium costaricense* (A. J. Shaw & H. Crum) A. J. Shaw, 1985.

Syntrichia Bridel, 1801.
S. aciphylla (Bruch & W. P. Schimper) Juratzka, 1882.
S. aciphylla var. *calva* Amann, Bull. Soc. Vaud. Sci. Nat. 53: 91. 1920.
Other use: *Tortula norvegica* var. *calva* (Amann) W. Kramer, 1980.
S. aciphylla var. *latipila* Amann, Fl. Mouss. Suisse 2(Add. Rectific.): 2. 1918.
Note: cited in Index Muscorum as "2: 2."
S. echinata (Schiffner) Herrnstadt & Ben-Sasson in Herrnstadt, Ben-Sasson & Crosby, Bryologist 85: 216. 1982.
Basionym: *Tortula echinata* Schiffner, 1915.
S. hadacii Vondrácek, Bull. Soc. Amis Sci. Lett. Poznan, Sér. D, Sci. Biol. 6: 121. f. 3. 1965 [1966].
Type: Iraq. Steppa inter Hadhar et Sharqat, *Hadac*, 1961. Holotype: herb. Vondrácek; isotype: BUH.
S. handelii (Schiffner) Agnew & Vondrácek, Feddes Repert. 86: 401. 1975.
Basionym: *Tortula handelii* Schiffner, 1913.
S. handelii var. *pseudodesertorum* Vondrácek, Bull. Soc. Amis Sci. Lett. Poznan, Sér. D, Sci. Biol. 6: 121. f. 6. 1965 [1966].
Type: Iraq. Pira Magrun, distr. Sulaimania, *Hadac*, 1960. Holotype: herb. Vondrácek; isotype: BUH.
S. mongolica Boros, Trans. Brit. Bryol. Soc. 6: 70. f. 1-2. 1970.
Type: Mongolia. Prope Baronurt, Mongolia orientali, 1000 m, *Moldvai*, 1967. Holotype: herb. Boros.
Other use: *Tortula mongolica* (Boros) Ochyra, 1980.
Original placement: subgen. *Tortula*.
**S. virescens* (De Notaris) Boros in Soó, Magyar Fl. 1: 425. 1964.
*invalid, basionym not cited (Article 33.2).

Syringothecium Mitten, 1869, "*Syrigothecium*."
S. brasiliense Brotherus, Denkschr. Kaiserl. Akad. Wiss., Math.- Naturwiss. Kl. 83: 338. 1926.
Other use: *Isopterygium brasiliense* (Brotherus) Buck, 1989.
S. sprucei Mitten, J. Linn. Soc., Bot. 12: 497. 1869.
Other use: *Isopterygium sprucei* (Mitten) Buck, 1989.

+**Syrjagia** Fefilova, Geol. Polez. Isokop. Sevoro-Vostoka Evrop. Casti SSSR 1972: 87. 1973.
Type: *S. lituata* Fefilova, holotype.
Original placement: not indicated by authors.
+*S. lituata* Fefilova, Geol. Polez. Isokop. Sevoro-Vostoka Evrop. Chasti SSSR 1972: 88. pl. 2: f. 1: a-z. 1973.
Type: U.S.S.R. N of Pre-Ural Depression, Bolshaia Synia, Kazan Stage, *Geol. Inst. 306/105*. Holotype: SYKO.
+*S. rectiserialis* Fefilova, Geol. Polez. Isokop. Sevoro-Vostoka Evrop. Chasti SSSR 1972: 89. pl. 2: f. 2: a-v, 3. 1973.
Type: U.S.S.R. N of Pre-Ural Depression, Bolshoi Pakok, Ufa Stage, *Geol. Inst. 306/41*. Holotype: SYKO.

Syrrhopodon Schwägrichen, 1824.

S. sect. *Crassimarginatae* Orbán, Acta Bot. Acad. Sci. Hung. 27: 170. 1981.
Type: *S. asper* Mitten, holotype.
Original placement: *S.* subgen. *Syrrhopodon*.

S. sect. *Heliconema* Mitten, J. Linn. Soc., Bot. 12: 112. 1869.
Other use: *Heliconema* (Mitten) L. Ellis & A. Eddy, 1989.

S. subgen. *Hyalolimbatae* Orbán, Acta Bot. Acad. Sci. Hung. 27: 170. 1981.
Type: *S. prolifer* Schwaegrichen, holotype.

S. sect. *Tricostatae* Orbán, Acta Bot. Acad. Sci. Hung. 23: 174. 1977.
Type: *S. stuhlmanii* Brotherus, holotype.
Original placement: subgen. *Orthotheca*.

S. aberrans Brotherus, 1928.

S. aberrans var. *laevis* Dixon, J. Linn. Soc., Bot. 50: 81. 1935.
Other use: *Syrrhopodon laevis* (Dixon) Mohamed & W. D. Reese, 1985 [1986].

S. adpressus Brotherus, Oefers. Förh. Finska Vetensk.-Soc. 40: 166. 1898.
Other use: *Mitthyridium adpressum* (Brotherus) H. Robinson, 1975.

S. annamensis Thériot, Rev. Bryol. Lichénol. 4: 135. f. 1-7. 1932.
Other use: *Syrrhopodon flammeonervis* subsp. *annamensis* (Thériot) Tixier, 1978.

S. annotinus W. D. Reese & Griffin, Bryologist 79: 518. f. 1-10. 1976 [1977].
Type: Brazil. Amazonas: Rio Lages, km 130 along Manaus-Caracari Road, 50 m, *Griffin et al. 723*. Holotype: INPA; isotypes: FLAS, LAF, NY.

S. aristifolius Mitten, J. Linn. Soc., Bot. 10: 176. 1868, "*aristifolium*."
Other use: *Calymperidium aristifolium* (Mitten) Schultze-Motel, 1974.

S. armatispinosus Lin Pang-juan, Acta Phytotax. Sin. 17: 93. f. 2. 1979.
Type: China. Hainan, *Chen et al. 220*. Holotype: IBSC; isotype: PE.

S. armatus Mitten, 1864.

S. armatus subsp. *insularum* (Bizot & Onraedt in Bizot) Orbán & W. D. Reese, Abstr. Bot. 10: 353. 1986, "*insularus*."
Basionym: *Syrrhopodon insularum* Bizot & Onraedt in Bizot, 1976.

S. assamicus H. Robinson, Bryologist 71: 84. f. 11-18. 1968.
Type: India. Assam: Cherrapunjee, 4000 feet, *Koelz 33658*. Holotype: US; isotype: MICH.

S. banksii C. Müller, 1858.

S. banksii var. *compactus* Thériot, Bull. Acad. Int. Géogr. Bot. 18: 253. 1908.
Other use: *Leucophanella banksii* var. *compacta* (Thériot) H. A. Miller, H. O. Whittier & B. Whittier, 1978.

S. bartramii H. O. Whittier in H. A. Miller, H. O. Whittier & Bonner, Beih. Nova Hedwigia 11: 15. 1963.
Type: Caroline Islands. Pingelap, *Menez 436*. Holotype: BISH.

S. berteroanus (Bridel) C. Müller, 1849.

S. berteroanus var. *planifolius* Thériot ex Bizot, Bull. Mens. Soc. Linn. Soc. Bot. Lyon 34: 310. 1965.
Type: Cuba. Loma San Juan, *Hioram 13701*. Holotype: herb. Thériot.
Note: invalid, no Latin description (Article 36.1), in Thériot, Mem. Soc. Bot. Cub. Hist. Nat. "Felipe Poey" 13(5): 268. 1939.

Syrrhopodon, continued.

S. binsteadii Thériot & Dixon, J. Linn. Soc., Bot. 43: 302. pl. 26: f. 5. 1916.
Other use: *Mitthyridium binsteadii* (Thériot & Dixon) H. Robinson, 1975.

S. blumii Nees ex Hampe, Bot. Zeitung (Berlin) 5: 921. 1847.
Other use: *Exostratum blumii* (Nees ex Hampe) L. Ellis, 1985.

S. brasiliensis W. D. Reese, Bryologist 86: 354. f. 1-11. 1983.
Type: Brazil. Minas Gerais: Caraca, *Ule 1388*. Holotype: HBG; isotypes: H, NY.

S. brevisetus Florschütz, Fl. Suriname 6(1): 148. f. 56. 1964.
Type: Surinam. Saramacca, Tibiti savanna, 3rd line near pickett 37, *Lanjouw & Lindeman 1780*. Holotype: U.

S. chenagonii Renauld & Cardot, Bull. Soc. Roy. Bot. Belgique 29(1): 175. 1890, "*chenagoni*."
Other use: *Mitthyridium chenagonii* (Renauld & Cardot) H. Robinson, 1975, *Serpotortella chenagonii* (Renauld & Cardot) W. D. Reese & Zander, 1987 [1988].

S. chenii W. D. Reese & Lin Pang-juan, Bryologist 92: 186. f. 1-5. 1989.
Type: China. Guangdong: Ding Hu Shan Nature Perserve, forested slopes, 240-300 m, *Redfearn et al. 34406*. Holotype: PE; isotypes: H, HIRO, IBSC, LAF, MO, NY.

S. cincinnatus Hampe, Vidensk. Meddel. Dansk Naturhist. Foren. Kjøbenhavn, ser. 3, 6: 131. 1874 [1875].
Other use: *Syrrhopodon prolifer* var. *cincinnatus* (Hampe) W. D. Reese, 1978.

S. constrictus (Sullivant) Mitten in Seemann, 1873.

S. constrictus var. *neocaledonicus* Thériot, Rev. Bryol. 48: 14. 1921.
Other use: *Thyridium constrictum* var. *neocaledonicum* (Thériot) H. A. Miller, H. O. Whittier & B. Whittier, 1978.

S. constrictus var. *tahiticus* Bescherelle, Bull. Soc. Bot. France 45: 59. 1898.
Other use: *Thyridium constrictum* var. *tahiticum* (Bescherelle) H. A. Miller, H. O. Whittier & B. Whittier, 1978.

S. crassus Brotherus, Oefers. Förh. Finska Vetensk.-Soc. 40: 166. 1898.
Other use: *Mitthyridium crassum* (Brotherus) H. Robinson, 1975.

S. crispulus Sehnem, Pesquisas, Bot. 29: 7. pl. 4: f. 1. 1972.
Type: Brazil. Santa Catarina: insula eiusdem nominis Morro do Antao, 200 m, *Sehnem 3189*. Herbarium not specified by author.

S. cryptocarpus Dozy & Molkenboer, Natuurk. Verh. Holl. Maatsch. Wetensch. Haarlem 10(3): 14. f. 7. 1854, "*cryptocarpos*."
Other use: *Heliconema cryptocarpus* (Dozy & Molkenboer) L. Ellis & A. Eddy, 1989.

S. curticancellinatus Norris, W. D. Reese & T. Koponen, Ann. Bot. Fenn. 25: 149. f. 1. 1988.
Type: Papua New Guinea. West Sepik: Frieda Rivers prospecting area, Frieda Copper Co., 0.5 km NE Frieda Base Camp, 400 m, *Koponen 36101*. Holotype: H; isotypes: HSU, LAE, LAF.

Syrrhopodon, continued.

S. cyrtophyllus Bescherelle, Ann. Sci. Nat. Bot., ser. 6, 9: 347. 1878.
Other use: *Mitthyridium cyrtophyllum* (Bescherelle) H. Robinson, 1975, *Serpotortella cyrtophylla* (Bescherelle) W. D. Reese & Zander, 1987 [1988].

S. elatus Montagne, Ann. Sci. Nat. Bot., ser. 2, 3: 198. 1835.
Other use: *Syrrhopodon incompletus* var. *elatus* (Montagne) Florschütz, 1964.

S. elimbatus Dixon, Bull. Torrey Bot. Club 51: 230. pl. 3 [sic, 4]: 8. 1924.
Other use: *Syrrhopodon spiculosus* var. *elimbatus* (Dixon) Pócs & Tixier, 1967, *Syrrhopodon spiculosus* subsp. *elimbatus* (Dixon) Tixier, 1978.

S. elongatus Sullivant, 1861.

S. elongatus var. *anomalus* Thériot ex Bizot, Bull. Mens. Soc. Linn. Soc. Bot. Lyon 34: 310. 1965.
Type: Cuba. Taco Bay, *Ekman 3799*. Holotype: herb. Thériot.
Note: invalid, no Latin description (Article 36.1), in Thériot, Mem. Soc. Bot. Cub. Hist. Nat. "Felipe Poey" 13(5): 267. 1939.

S. elongatus var. *glaziovii* (Hampe) W. D. Reese, Bryologist 81: 214. 1978.
Basionym: *Syrrhopodon glaziovii* Hampe, 1874 [1875].

S. fasciculatus W. J. Hooker & Greville, Edinburgh J. Sci. 3: 225. 1825.
Other use: *Mitthyridium fasciculatum* (W. J. Hooker & Greville) H. Robinson, 1975.

S. fasciculatus var. *rhizophyllus* Brotherus & Paris in Brotherus, Oefers. Förh. Finska Vetensk.-Soc. 53A(11): 13. 1911.
Other use: *Mitthyridium fasciculatum* var. *rhizophyllum* (Brotherus & Paris in Brotherus) Nowak, 1980.

S. fissipapillatus H. O. Whittier, Mosses Society Isl. 119. f. 30: e-i. 1976.
Type: Tahiti. Papenoo-Vaihiria trail, *Whittier s.n. "24."* Holotype: NY.

S. flammeonervis C. Müller, 1874.

S. flammeonervis subsp. *annamensis* (Thériot) Tixier, Nova Hedwigia 29: 976. 1978.
Basionym: *Syrrhopodon annamensis* Thériot, 1932.

S. flammeonervis subsp. *lilliei* (Brotherus) Tixier, Nova Hedwigia 29: 978. 1978, *"lillieii."*
Basionym: *Syrrhopodon lilliei* Brotherus, 1915.

S. flammeonervis var. *lilliei* (Brotherus) Tixier, Nat. Hist. Bull. Siam Soc. 26: 15. 1975.
Basionym: *Syrrhopodon lilliei* Brotherus, 1915.

S. flavus C. Müller, Bot. Zeitung (Berlin) 13: 763. 1855.
Other use: *Mitthyridium flavum* (C. Müller) H. Robinson, 1975.

S. flexifolius Mitten, J. Linn. Soc., Bot. 12: 118. 1869.
Other use: *Syrrhopodon parasiticus* var. *flexifolius* (Mitten) W. D. Reese, 1981.

S. fraserianus Tixier, Gard. Bull. Straits Settlem. 25: 346. f. 1. 1971.
Type: Malaysia [Malay Peninsula]. Fraser's Hill Station, 112 km from Kuala Lumpur, 1400 m, on ridge of the Main Range near the water parting between Pahang and Selangor, *Tixier 4769*. Herbarium not specified by author.

Syrrhopodon, continued.

S. geheebii Paris, Index Bryol. 1248. 1898.
Replaced name: *Syrrhopodon gracilis* Geheeb, 1889.
Blocking name: *Syrrhopodon gracilis* Mitten in Seemann, 1873.
Other use: *Mitthyridium geheebii* (Paris) H. Robinson, 1975.

S. glaucinus Bescherelle, Bull. Soc. Bot. France 48: 14. 1901.
Other use: *Mitthyridium glaucinum* (Bescherelle) H. Robinson, 1975.

S. glaucovirens Mitten, J. Linn. Soc., Bot. 10: 176. 1868.
Other use: *Calymperidium glaucovirens* (Mitten) Schultze-Motel, 1974.

S. glaziovii Hampe, Vidensk. Meddel. Dansk Naturhist. Foren. Kjøbenhavn, ser. 3, 6: 133. 1874 [1875].
Other use: *Syrrhopodon elongatus* var. *glaziovii* (Hampe) W. D. Reese, 1978.

S. griffinii H. Robinson, Phytologia 21: 390. f. 8. 1971.
Type: Peru. Loreto: cerca de Zungara Cocha al 25 km oeste de Isquitos, *Griffin & Griffin*, 1965. Holotype: US; isotype: LAF.

S. griffithii Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 40. 1859.
Other use: *Syrrhopodon spiculosus* var. *griffithii* (Mitten) Pócs & Tixier, 1967.

S. hasegawae Takaki & Iwatsuki, J. Hattori Bot. Lab. 21: 240. f. 2. 1959.
Other use: *Calymperes hasegawae* (Takaki & Iwatsuki) Iwasaki, 1965, *Calymperes johannis-winkleri* var. *hasegawae* (Takaki & Iwatsuki) Iwatsuki, 1968.

S. herzogii Brotherus, Hedwigia 50: 125. 1910.
Other use: *Syrrhopodon spiculosus* subsp. *herzogii* (Brotherus) Tixier, 1978.

S. hispidissimus Dixon, 1928.

S. hispidissimus var. *acutifolius* Zanten, Nova Guinea, Bot. 10(16): 279. pl. 23: f. 5. 1964.
Type: Indonesia [New Guinea]. Irian Barat: Tanah-Merah, 50 m, *Zanten 101g*. Holotype: L; isotype: GRO.

S. horridulus Fleischer, Musci Buitenzorg 1: 208. 1904.
Other use: *Syrrhopodon spiculosus* subsp. *horridulus* (Fleischer) Tixier, 1978.

S. incompletus Schwägrichen, 1824.

S. incompletus var. *berteroanus* (Bridel) W. D. Reese, Bryologist 80: 9. 1977.
Basionym: *Dicranum berteroanum* Bridel, 1826.

S. incompletus var. *elatus* (Montagne) Florschütz, Fl. Suriname 6(1): 163. 1964.
Basionym: *Syrrhopodon elatus* Montagne, 1835.

S. incompletus var. *lanceolatus* (Hampe) W. D. Reese, Bryologist 80: 13. 1977.
Basionym: *Calymperes lanceolatum* Hampe, 1879.

S. incompletus var. *luridus* (Paris & Brotherus) Florschütz, Fl. Suriname 6(1): 163. 1964.
Basionym: *Syrrhopodon luridus* Paris & Brotherus, 1906.

S. incompletus var. *perangustifolius* W. D. Reese, Bryologist 80: 13. f. 17-20. 1977.
Type: Peru. Guayrapurina, *Spruce 5*. Holotype: NY.

Syrrhopodon, continued.

S. insularum Bizot & Onraedt in Bizot, Rev. Bryol. Lichénol. 42: 848. 1976.
Type: Reunion, *Onraedt 69 R 963*. Holotype: herb. Bizot.
Other use: *Syrrhopodon armatus* subsp. *insularum* (Bizot & Onraedt in Bizot) Orbán & W. D. Reese, 1986.

S. involutus Schwägrichen, Sp. Musc. Frond., Suppl. 2 1(2): 117. pl. 132. 1824.
Other use: *Leucophanella involuta* (Schwägrichen) H. A. Miller, H. O. Whittier & B. Whittier, 1978.

S. isthmi W. D. Reese, Bryologist 85: 85. f. 1-10. 1982.
Type: Panama. Panama: Cerro Jefe, ca. 8 km beyond Goofy Lake by road, 9°10' N, 79°25' W, *Crosby 4532*. Holotype: MO; isotype: PMA.

S. jungquilianus Mitten in Dozy & Molkenboer, Bryol. Jav. 1: 57. pl. 46. 1856.
Other use: *Mitthyridium jungquilianum* (Mitten in Dozy & Molkenboer) H. Robinson, 1975.

S. laevis (Dixon) Mohamed & W. D. Reese, Bryologist 88: 233. 1985 [1986].
Basionym: *Syrrhopodon aberrans* var. *laevis* Dixon, 1935.

S. larminatii Brotherus & Paris, 1901, "*larminati*."

**S. larminatii* var. *epapillosus* Pócs & Tixier, Ann. Hist.-Nat. Mus. Natl. Hung. 59: 127. 1967.
*invalid, single element not cited as holotype (Article 37.3).
Type: no element cited by authors.

S. leucoloma C. Müller, Bot. Jahrb. Syst. 5: 86. 1883.
Other use: *Mitthyridium leucoloma* (C. Müller) H. Robinson, 1975.

S. lilliei Brotherus, J. & Proc. Roy. Soc. New South Wales 49: 133. 1915.
Other use: *Syrrhopodon flammeonervis* subsp. *lilliei* (Brotherus) Tixier, 1978, *Syrrhopodon flammeonervis* var. *lilliei* (Brotherus) Tixier, 1975.

S. loreus (Sande Lacoste) W. D. Reese, Phytologia 56: 306. 1984.
Basionym: *Calymperes loreum* Sande Lacoste, 1873.

S. louisiadus Brotherus, Oefers. Förh. Finska Vetensk.-Soc. 42: 95. 1899 [1900], "*louisiadum*."
Other use: *Mitthyridium louisiadum* (Brotherus) Nowak, 1980.

S. luridus Paris & Brotherus, Rev. Bryol. 33: 56. 1906.
Other use: *Syrrhopodon incompletus* var. *luridus* (Paris & Brotherus) Florschütz, 1964.

S. meijeri W. D. Reese, Bryologist 90: 201. f. 1-6. 1987 [1988].
Type: Malaysia [Borneo]. Sabah: Interior Res., Sipitang, Mengalang Forest Reserve, *Meijer B12422*. Holotype: L.

S. microundulatus Dixon, Ann. Bryol. 2: 719. 1929.
Other use: *Mitthyridium microundulatum* (Dixon) H. Robinson, 1975.

S. mooreae (Bescherelle) H. O. Whittier in H. O. Whittier & B. Whittier, Bryologist 77: 433. 1974.
Basionym: *Calymperes mooreae* Bescherelle, 1901.

S. mujuensis Zanten, Nova Guinea, Bot. 10(16): 280. pl. 24: f. 1. 1964.
Type: Indonesia [New Guinea]. Irian Barat: Umkubun, 400 m, *Zanten 266*. Holotype: L; isotype: GRO.

Syrrhopodon, continued.

S. nymanii Fleischer, Musci Buitenzorg 1: 213. 1904, "*nymani*."
Other use: *Calymperes nymanii* (Fleischer) W. D. Reese, 1984.

S. obtusifolius Lindberg, Öfvers. Förh. Kongl. Svenska Vetensk.-Akad. 21: 605. 1864 [1865].
Other use: *Mitthyridium obtusifolium* (Lindberg) H. Robinson, 1975.

S. obtusifolius var. *neocaledonicus* Thériot, Diagn. Esp. Var. Nouv. Mouss. 8: 4. 1910.
Other use: *Thyridium obtusifolium* var. *neocaledonicum* (Thériot) H. A. Miller, H. O. Whittier & B. Whittier, 1978.

S. obuduensis Egunyomi & Olarinmoye, Bryologist 85: 312. f. 1-15. 1982.
Type: Nigeria. Cross River: Obudu Cattle Ranch, 1420 m, *Egunyomi 388*. Holotype: UIH; isotype: herb. Bizot.

S. orientalis W. D. Reese & Lin Pang-juan, Bryologist 92: 186. f. 6-11. 1989.
Type: China. Guangdong: Dinghu Shan, on trunk, *G. L. Shi 11693*. Holotype: IBSC; isotype: LAF.

S. papillosus C. Müller, Bot. Zeitung (Berlin) 6: 766. 1849.
Other use: *Syrrhopodon prolifer* var. *papillosus* (C. Müller) W. D. Reese, 1978.

S. papuanus Brotherus, Oefers. Förh. Finska Vetensk.-Soc. 37: 156. 1895.
Other use: *Mitthyridium papuanum* (Brotherus) H. Robinson, 1975.

S. parasiticus (Swartz ex Bridel) Paris, 1898.

S. parasiticus var. *disciformis* (C. Müller) Florschütz, Fl. Suriname 6(1): 154. 1964.
Basionym: *Calymperes disciforme* C. Müller, 1848.

S. parasiticus var. *flexifolius* (Mitten) W. D. Reese, Bryologist 84: 245. 1981.
Basionym: *Syrrhopodon flexifolius* Mitten, 1869.

S. perlongifolius Schultze-Motel, Willdenowia 7: 54. 1973.
Replaced name: *Calymperes longifolium* Mitten, 1868.
Blocking name: *Syrrhopodon longifolius* Lindberg ex Ångström, 1876.

S. perundulatus Brotherus in Schumann & Lauterbach, Fl. Schutzgeb. Südsee 83. 1900.
Other use: *Mitthyridium perundulatum* (Brotherus in Schumann & Lauterbach) H. Robinson, 1975.

S. pilulifer Dixon, J. Bombay Nat. Hist. Soc. 39: 775. 1 f. 2. 1937.
Other use: *Thyridium piluliferum* (Dixon) Gangulee, 1963 [1964].

S. prolifer Schwägrichen, 1827.

S. prolifer var. *cincinnatus* (Hampe) W. D. Reese, Bryologist 81: 200. 1978.
Basionym: *Syrrhopodon cincinnatus* Hampe, 1874 [1875].

S. prolifer var. *hispidocostatus* (Renauld & Cardot) Orbán, Sixth Meet. C. & E. Eur. Bryol. Work. Group, Abstr. 10. 1988.
*invalid, basionym not cited (Article 33.2).

S. prolifer var. *mossmanensis* W. D. Reese, Bryologist 92: 303. f. 4-6. 1989.
Type: Australia. Queensland: Lower High Falls, N of Mossman, 16°28' S, 145°16' E, *Schofield & Stone 90033*. Holotype: UBC; isotypes: LAF, MELU, NSW. Paratype cited.

Syrrhopodon, continued.

S. prolifer var. *papillosus* (C. Müller) W. D. Reese, Bryologist 81: 196. 1978.
Basionym: *Syrrhopodon papillosus* C. Müller, 1849.

S. prolifer var. *tenuifolius* (Sullivant) W. D. Reese, Bryologist 81: 199. 1978.
Basionym: *Calymperes tenuifolium* Sullivant, 1861.

S. pungens Dixon, Bull. Torrey Bot. Club 51: 231. pl. 4: f. 17. 1924.
Other use: *Mitthyridium pungens* (Dixon) H. Robinson, 1975.

S. repens Harvey in W. J. Hooker, Icon. Pl. Rar. 1: pl. 22: f. 4. 1837.
Other use: *Mitthyridium repens* (Harvey in W. J. Hooker) H. Robinson, 1975.

S. robustiusculus (Brotherus) W. D. Reese & B. C. Tan, Lindbergia 11: 73. 1985 [1986].
Basionym: *Calymperes robustiusculum* Brotherus, 1901.

S. rubiginosus Mitten, J. Linn. Soc., Bot. 12: 125. 1869.
Other use: *Calymperes rubiginosum* (Mitten) W. D. Reese, 1975, *Thyridium rubiginosum* (Mitten) Jaeger, 1879.

S. ruwenzorensis (Thériot & Naveau) Ochyra & A. J. Sharp, J. Hattori Bot. Lab. 65: 345. 1988, "*ruwenzorense*."
Basionym: *Mielichhoferia ruwenzoriensis* Thériot & Naveau, 1927.

S. sarawakensis (Dixon) W. D. Reese, Bryologist 91: 203. 1988.
Basionym: *Calymperes sarawakense* Dixon, 1935.

S. scolopendrius Mitten, Bonplandia (Hanover) 9: 366. 1861.
Other use: *Exostratum scolopendrium* (Mitten) L. Ellis, 1985.

S. spiculosus W. J. Hooker & Greville, 1825.

S. spiculosus subsp. *bokorensis* Tixier, Nova Hedwigia 29: 998. f. 17. 1978.
Type: Cambodia. Kampot, Mont Bokor, 700 m, *Tixier 3237*. Herbarium not specified by author.

S. spiculosus subsp. *elimbatus* (Dixon) Tixier, Nova Hedwigia 29: 993. 1978.
Basionym: *Syrrhopodon elimbatus* Dixon, 1924.

S. spiculosus var. *elimbatus* (Dixon) Pócs & Tixier, Ann. Hist.-Nat. Mus. Natl. Hung. 59: 130. 1967.
Basionym: *Syrrhopodon elimbatus* Dixon, 1924.
Note: redundant combination in Nat. Hist. Bull. Siam Soc. 26: 15. 1975.

S. spiculosus var. *griffithii* (Mitten) Pócs & Tixier, Ann. Hist.-Nat. Mus. Natl. Hung. 59: 130. 1967.
Basionym: *Syrrhopodon griffithii* Mitten, 1859.

S. spiculosus subsp. *herzogii* (Brotherus) Tixier, Nova Hedwigia 29: 991. 1978.
Basionym: *Syrrhopodon herzogii* Brotherus, 1910.

S. spiculosus subsp. *horridulus* (Fleischer) Tixier, Nova Hedwigia 29: 993. 1978.
Basionym: *Syrrhopodon horridulus* Fleischer, 1904.

S. spiculosus subsp. *pseudogardneri* Tixier, Nova Hedwigia 29: 996. f. 16. 1978.
Type: Cambodia. Bokor, *Tixier 3147*. Herbarium not specified by author.

S. stenophyllus Sehnem, Pesquisas, Bot. 29: 12. pl. 7: f. 1. 1972.
Type: Brazil. Parana: Terras CITLA, *Sehnem 6675*. Herbarium not specified by author.
Original placement: sect. *Syrrhopodon*.

Syrrhopodon, continued.

S. steyermarkii H. Robinson, Phytologia 23: 390. f. 4-6. 1972.
Type: Venezuela. Amazonas: Cerro Yapacana, 825 m, *Steyermark 103154*. Holotype: US; isotype: VEN.

S. stoneae W. D. Reese, Bryologist 92: 302. f. 1-3. 1989.
Type: Australia. Queensland: Mt. Bartle Frere from Josephine Falls, *Schofield & Schofield 79707*. Holotype: UBC; isotypes: LAF, MELU, NSW.

S. subflavus Renauld & Cardot, Bull. Soc. Roy. Bot. Belgique 35(1): 310. 1896 [1897].
Other use: *Mitthyridium subflavum* (Renauld & Cardot) H. Robinson, 1975.

S. subobtusifolius Brotherus & Paris, Oefers. Förh. Finska Vetensk.-Soc. 53A(11): 13. 1911.
Other use: *Mitthyridium subobtusifolium* (Brotherus & Paris) H. Robinson, 1975.

S. subspiculosus C. Müller, J. Mus. Godeffroy 3(6): 67. 1874.
Other use: *Leucophanella subspiculosa* (C. Müller) Schultze-Motel, 1974.

S. sullivantii Dozy & Molkenboer, Bryol. Jav. 1: 58. pl. 47. 1856.
Other use: *Exostratum sullivantii* (Dozy & Molkenboer) L. Ellis, 1985.

S. tortuosus Hornschuch, Linnaea 15: 117. 1841.
Other use: *Amphidium tortuosum* (Hornschuch) H. Robinson, 1975.

S. tricolor R. S. Williams, Bull. New York Bot. Gard. 3(9): 114. 1903.
Other use: *Leptodontium tricolor* (R. S. Williams) Zander in Zander & E. Hegewald, 1976.

S. undulatulus Brotherus & Geheeb, Oefers. Förh. Finska Vetensk.-Soc. 42: 96. 1899 [1900].
Other use: *Mitthyridium undulatulum* (Brotherus & Geheeb) H. Robinson, 1975.

S. urvilleanus C. Müller, Syn. Musc. Frond. 1: 540. 1849.
Other use: *Holomitrium urvilleanum* (C. Müller) W. D. Reese, 1978.

S. usambaricus Brotherus ex Orbán, Acta Bot. Acad. Sci. Hung. 24: 113. f. 1-11. 1978.
Type: Tanzania. Usambara, Lutindi, *Liebusch 1902*. Holotype: herb. Brotherus.
Original placement: subgen. *Orthotheca*.

S. vriesei Sande Lacoste, Natuurk. Verh. Kon. Akad. Wetensch. Amsterdam 13: 6. f. 4: a. 1872.
Other use: *Mitthyridium vriesei* (Sande Lacoste) H. Robinson, 1975.

S. wallisii C. Müller, Linnaea 38: 555. 1874, "*wallisi*."
Other use: *Mitthyridium wallsii* (C. Müller) H. Robinson, 1975.

S. woropkensis Zanten, Nova Guinea, Bot. 10(16): 281. pl. 24: f. 2. 1964.
Type: Indonesia [New Guinea]. Irian Barat: Woropko, 100 m, *Zanten 188*. Holotype: L; isotype: GRO.

S. woropkensis var. *longifolius* Zanten, Nova Guinea, Bot. 10(16): 282. pl. 24: f. 2: e. 1964.
Type: Indonesia [New Guinea]. Irian Barat: Tanah-Merah, 8 km along road to Mindiptana, 50 m, *Zanten 104e*. Holotype: L; isotype: GRO.

Syrrhopodon, continued.
S. xanthophyllus Mitten, J. Linn. Soc., Bot. 12: 115. 1869.
Other use: *Heliconema xanthophyllum* (Mitten) L. Ellis & A. Eddy, 1989.

Systegium W. P. Schimper, 1860.
S. unguiculatum Mitten, J. Linn. Soc., Bot. 22: 304. 1886.
Other use: *Weissia unguiculata* (Mitten) Crundwell & Nyholm, 1974.

Taxiphyllopsis Higuchi & Deguchi, Mem. New York Bot. Gard. 45: 528. 1987.
Type: *T. iwatsukii* Higuchi & Deguchi, holotype.
Original placement: Hypnaceae.
T. iwatsukii Higuchi & Deguchi, Mem. New York Bot. Gard. 45: 528. f. 1-36. 1987.
Type: Japan [Shikoku]. Kochi: Mt. Yokogura, ca. 500 m, *Deguchi 28253*. Holotype: HIRO; isotypes: KOCH, NY.

Taxiphyllum Fleischer, 1923.
T. alare (Brotherus & A. Yasuda) Lin Shan-Hsiung, Yushania 5: 26. 1988.
Basionym: *Glossadelphus alaris* Brotherus & A. Yasuda, 1926.
T. alternans (Cardot) Iwatsuki, J. Hattori Bot. Lab. 26: 67. 1963.
Basionym: *Isopterygium alternans* Cardot, 1904.
T. andersonii (E. B. Bartram) H. Crum, Bryologist 68: 220. 1965.
Basionym: *Glossadelphus andersonii* E. B. Bartram, 1951.
T. angustirete (Brotherus) Buck, Mem. New York Bot. Gard. 45: 521. 1987.
Basionym: *Ectropothecium angustirete* Brotherus, 1898.
T. aomoriense (Bescherelle) Iwatsuki, J. Hattori Bot. Lab. 26: 67. 1963.
Basionym: *Plagiothecium aomoriense* Bescherelle, 1893.
T. barbieri (Cardot & Coppey in Coppey) Iwatsuki, Misc. Bryol. Lichenol. 9: 115. 1982.
Basionym: *Isopterygium barbieri* Cardot & Coppey in Coppey, 1911.
**T. chaetomitrioides* Tixier, Rev. Bryol. Lichénol. 31: 199. f. 4. 1962 [1963].
*invalid, single element not cited as holotype (Article 37.3).
T. cuspidifolium (Cardot) Iwatsuki, J. Hattori Bot. Lab. 28: 220. 1965.
Basionym: *Isopterygium cuspidifolium* Cardot, 1912.
T. eximium (Sullivant & Lesquereux) Iwatsuki, J. Hattori Bot. Lab. 26: 73. 1963.
Basionym: *Hypnum eximium* Sullivant & Lesquereux, 1859.
T. gallorum Buck, Brittonia 36: 178. 1984.
Type: Jamaica. Trelawny: Cockpit Country, just N of Wilson's Run, 500 m, *Buck 5888*. Holotype: NY.
**T. gracile* (Bescherelle) Lin Shan-Hsiung, J. Hattori Bot. Lab. 55: 300. 1984.
*illegitimate, later homonym (Article 64.1).
Basionym: *Acrocladium gracile* Bescherelle, 1901.
Earlier name: *Taxiphyllum gracile* Brotherus, 1927.
Note: invalid, basionym not cited (Article 33.2), in J. Taiwan Mus. 36(2): 37. 1983.

Taxiphyllum, continued.

T. isopterygioides (Dixon) Buck, Mem. New York Bot. Gard. 45: 521. 1987.
Basionym: *Taxithelium isopterygioides* Dixon, 1915.

T. kuroiwae (Brotherus) Iwatsuki, J. Hattori Bot. Lab. 26: 67. 1963.
Basionym: *Plagiothecium kuroiwae* Brotherus, 1921.

T. laevifolium (Mitten) Buck, Mem. New York Bot. Gard. 45: 521. 1987.
Basionym: *Ectropothecium laevifolium* Mitten, 1869.

T. machrisianum H. Crum, Nat. Hist. Mus. Los Angeles County, Contr. Sci. 18: 5. f. 1-4. 1957.
Other use: *Isopterygium machrisianum* (H. Crum) Ireland, 1984 [1985].

T. mexicanum (Thériot) H. Robinson, Phytologia 28: 66. 1974.
Basionym: *Pterigynandrum filiforme* var. *mexicanum* Thériot, 1928.

T. minutirameum (C. Müller) H. A. Miller & D. R. Smith, Micronesica 4: 225. 1968.
Basionym: *Hypnum minutirameum* C. Müller, 1851.

T. minutirameum var. *brevifolium* (Fleischer) H. O. Whittier, Florida Sci. 38: 103. 1975.
Basionym: *Isopterygium minutirameum* fo. *brevifolium* Fleischer, 1923.

T. minutirameum var. *tonkinense* (Bescherelle) H. O. Whittier, Florida Sci. 38: 103. 1975.
Basionym: *Isopterygium tonkinense* Bescherelle, 1894.

T. minutirameum var. *vitiense* (Dixon in Dixon & Greenwood) H. O. Whittier, Florida Sci. 38: 103. 1975.
Basionym: *Isopterygium minutirameum* var. *vitiense* Dixon in Dixon & Greenwood, 1930.

T. nitidum (Thériot) Buck, Mem. New York Bot. Gard. 45: 521. 1987.
Basionym: *Glossadelphus nitidus* Thériot, 1932.

T. pilosum (Brotherus & M. Yasuda) Iwatsuki, J. Hattori Bot. Lab. 26: 67. 1963.
Basionym: *Plagiothecium pilosum* Brotherus & M. Yasuda, 1926.

T. prostratum (Dozy & Molkenboer) Buck, Mem. New York Bot. Gard. 45: 521. 1987.
Basionym: *Hypnum prostratum* Dozy & Molkenboer, 1844.

T. robusticaule (E. B. Bartram) Ireland, Bryologist 87: 360. 1984 [1985].
Basionym: *Isopterygium robusticaule* E. B. Bartram, 1946.

T. sadoense (Sakurai) Iwatsuki, J. Hattori Bot. Lab. 26: 67. 1963.
Basionym: *Plagiothecium sadoense* Sakurai, 1949.

T. serrulatum (Cardot) Lin Shan-Hsiung, J. Hattori Bot. Lab. 55: 300. 1984.
Basionym: *Acrocladiopsis serrulata* Cardot, 1914.
Note: invalid, basionym not cited (Article 33.2), in J. Taiwan Mus. 36(2): 37. 1983.

T. sharpii (H. Crum & L. E. Anderson) H. Robinson, Phytologia 28: 66. 1974.
Basionym: *Pterigynandrum sharpii* H. Crum & L. E. Anderson, 1967.

T. squamatum (Brotherus) Iwatsuki, J. Hattori Bot. Lab. 26: 67. 1963.
Basionym: *Plagiothecium squamatum* Brotherus, 1921.

T. subarcuatum (Brotherus) Iwatsuki, J. Hattori Bot. Lab. 26: 67. 1963.
Basionym: *Homalia subarcuata* Brotherus, 1899.

Taxiphyllum, continued.

T. torrentium (Bescherelle) Buck, Mem. New York Bot. Gard. 45: 521. 1987.
Basionym: *Amblystegium torrentium* Bescherelle, 1898.

T. whittierianum H. A. Miller & D. R. Smith, Micronesica 4: 225. f. 44. 1968 [1969].
Type: Caroline Islands. Truk: Moen, Mt. Tonaken, 370 m, *Whittier & Miller 722*. Holotype: MU; isotypes: BISH, G.

Taxithelium Spruce ex Mitten, 1869.

**T. arnottii* Thériot ex Tixier, Rev. Bryol. Lichénol. 38: 157. f. 7. 1971-72 [1972].
*invalid, single element not cited as holotype (Article 37.3).
Type: Thailand, *Tixier 1026, 500*.

T. friedense Norris & T. Koponen, Ann. Bot. Fenn. 22: 383. f. 8. 1985.
Type: Papua New Guinea. West Sepik: Frieda River, Nena area, 8-9 km NW of Frieda Base Camp, helipad M 200, 800 m, *Koponen 35136*. Holotype: H; isotypes: HSC, LAE.

T. inerme Tixier, Rev. Bryol. Lichénol. 38: 159. f. 8. 1971-72 [1972].
Type: Thailand. Chandhaburi, Plew Waterfalls, *Tixier 965*. Herbarium not specified by author.

T. instratum (Bridel) Brotherus in Renauld & Cardot, 1901.

T. instratum var. *papillisetum* (Fleischer) Zanten, Nova Guinea, Bot. 10(16): 342. 1964.
Basionym: *Taxithelium papillisetum* Fleischer, 1923.

T. isocladum (Bosch & Sande Lacoste) Renauld & Cardot, 1901.

T. isocladum var. *vietnamense* Tixier, Rev. Bryol. Lichénol. 34: 171. f. 24: 1: c-5: c. 1966, "*vietnamensis*."
Type: Vietnam. Quang-Binh, 50 m, *Maunier*, 1927. Herbarium not specified by author.

T. isopterygioides Dixon, J. Bot. 53: 295. pl. 540: f. 9. 1915.
Other use: *Taxiphyllum isopterygioides* (Dixon) Buck, 1987.

T. lingulatum Cardot, Beih. Bot. Centralbl. 19(2): 136. 27. 1905.
Other use: *Phyllodon lingulatus* (Cardot) Buck, 1987.

T. magnum Fleischer, 1923.

T. magnum var. *laticuspis* Zanten, Nova Guinea, Bot. 10(16): 343. pl. 31: f. 4. 1964.
Type: Indonesia [New Guinea]. Irian Barat: Mt. Antares, Camp 39a, 1500 m, *Zanten 440*. Holotype: L; isotype: GRO.

T. oblongifolium (Sullivant & Lesquereux) Iwatsuki, J. Hattori Bot. Lab. 29: 60. 1966.
Basionym: *Hypnum oblongifolium* Sullivant & Lesquereux, 1859.

T. papillisetum Fleischer, Musci Buitenzorg 4: 1340. 1923.
Other use: *Taxithelium instratum* var. *papillisetum* (Fleischer) Zanten, 1964.

Taxithelium, continued.
T. planum (Bridel) Mitten, 1869.
T. planum var. *hookerioides* Bizot & Thériot, Bull. Mens. Soc. Linn. Soc. Bot. Lyon 34: 326. 1965.
Type: Cuba. Loma San Juan, *Hioram 11808*. Holotype: herb. Bizot; isotype: herb. Thériot.
Note: invalid, no Latin description (Article 36.1), in Thériot, Mem. Soc. Bot. Cub. Hist. Nat. "Felipe Poey" 15(2): 223. 1914.
T. pluripunctatum (Renauld & Cardot) Buck, Moscosoa 2: 60. 1983.
Basionym: *Trichosteleum pluripunctatum* Renauld & Cardot, 1890.
T. scutellifolium Bescherelle, Ann. Sci. Nat. Bot., ser. 6, 10: 311. 1880.
Other use: *Phyllodon scutellifolius* (Bescherelle) Buck, 1987.
T. spathulifolium Dixon, J. Siam Soc., Nat. Hist. Suppl. 10: 26. 1935.
Other use: *Glossadelphus spathulifolius* (Dixon) R. S. Chopra, 1975.
T. vivicolor Brotherus & Dixon, Rec. Bot. Surv. India 6: 86. pl. 1: f. 4. 1914.
Other use: *Bryocrumia vivicolor* (Brotherus & Dixon) Buck, 1987.
T. yakoushimae Cardot, Bull. Soc. Bot. Genève 5: 318. 1913.
Other use: *Glossadelphus yakoushimae* (Cardot) Noguchi, 1983.

Tayloria W. J. Hooker, 1816.
T. subgen. *Pseudotetraplodon* A. Koponen, Ann. Bot. Fenn. 14: 193. 1977.
Type: *Splachnum octoblepharum* W. J. Hooker, *T. octoblepharum* (W. J. Hooker) Mitten, holotype.
T. braithwaitiana Tixier, Bull. Mus. Hist. Nat. (Paris), ser. 3, 269: 43. f. 1. 1974.
Type: New Hebrides. Espiritu Santo, mont Tabewasama, *Royal Society New Hebrides 2459*. Herbarium not specified by author.
T. cochabambae C. Müller, Nuovo Giorn. Bot. Ital., n.s., 4: 11. 1897.
Other use: *Brachymitrion cochabambae* (C. Müller) A. Koponen, 1977.
T. ephemeroides Takaki, Rep. Cryptog. Papua New Guinea 89. f. 1. 1975.
Type: Papua New Guinea. Chimbu: Mt. Wilhelm, 3500 m, *Takaki 44718*. Holotype: TNS.
T. froelichiana (Hedwig) Mitten ex Brotherus, 1903.
T. froelichiana var. *repanda* (Hübener) Wijk & Margadant, Taxon 14: 198. 1965.
Basionym: *Splachnum froelichianum* var. *repandum* Hübener, 1833.
T. laciniata Spruce, J. Proc. Linn. Soc., Bot. 5: 48. 1860.
Other use: *Brachymitrion laciniatum* (Spruce) A. Koponen, 1977.
T. moritziana C. Müller, Linnaea 19: 201. 1846.
Other use: *Brachymitrion moritzianum* (C. Müller) A. Koponen, 1977.
T. nepalensis Iwatsuki & Steere, Proc. Bryol. Soc. Japan 2: 42. 1977.
Type: Nepal. Between Saju Pokhari and Topke Gola, 4300 m, *Iwatsuki 823*. Holotype: NICH; isotype: NY.
Note: invalid, holotype not indicated (Article 37.1), in J. Hattori Bot. Lab. 39: 359. f. 7. 1975.
T. orthodonta (Palisot de Beauvois) Wijk & Margadant, Taxon 17: 467. 1968.
Basionym: *Bryum orthodontum* Palisot de Beauvois, 1805.

Tayloria, continued.

T. pocsii A. Koponen, Ann. Bot. Fenn. 12: 22. f. 1-16. 1975.
Type: Tanzania. Kilimanjaro Mountains, Mweka Route, *Pócs & Kundaeli 6718/F*. Holotype: H; isotype: EGR.
Other use: *Brachymitrion pocsii* (A. Koponen) A. Koponen, 1977.
Original placement: subgen. *Brachymitrium*.

T. pseudoalpicola Iwatsuki & Steere, Proc. Bryol. Soc. Japan 2: 42. 1977.
Type: Nepal. Between Phujeng La (pass) and Topke Gola, 3700 m, *Iwatsuki 1781*. Holotype: NICH; isotype: NY.
Note: invalid, holotype not indicated (Article 37.1), in Jour. Hattori Bot. Lab. 39: 357. 1975.

T. solitaria (Cardot) T. Koponen & W. A. Weber, Ann. Bot. Fenn. 9: 129. 1972.
Basionym: *Bryomnium solitarium* Cardot, 1909.

T. squarrosa (W. J. Hooker) T. Koponen, Ann. Bot. Fenn. 11: 43. 1974.
Basionym: *Splachnum squarrosum* W. J. Hooker, 1808.

T. stenophysata (Herzog) A. Koponen, Ann. Bot. Fenn. 14: 194. 1977.
Basionym: *Tetraplodon stenophysatus* Herzog, 1939.

T. ulei C. Müller ex Brotherus, Hedwigia 34: 126. 1895.
Other use: *Moseniella ulei* (C. Müller ex Brotherus) A. Koponen, 1977.

Tetraplodon Bruch & W. P. Schimper in B.S.G., 1844.

T. angustatus (Hedwig) Bruch & W. P. Schimper in B.S.G., 1844.

T. angustatus var. *integerrimus* Gao Chien, Fl. Musc. Chin. Boreali-Orient. 380. f. 98. 1977.
Type: China. Jilin: Districtus Antu Tschangbaishan, *Gao 1188*. Holotype: IFP.

T. blyttii Frisvoll, Lindbergia 4: 235. f. 4: a-3; 5: b, d; 6: a, d-j; 7: a; 10. 1978.
Type: Norway. Nord-Trondelag: Lierne, Ostre Brandsfjellet, 600 m, *Fridtz*, 1892. Holotype: O.

T. mnioides (Swartz ex Hedwig) Bruch & W. P. Schimper in B.S.G., 1844.

**T. mnioides* var. *longisetus* Gao Chien in Wu Pan-cheng, Lou Jian-shing & Wang Mei-zhi, Gloss. Terms Names Bryoph. 117. 1984.
*invalid, no Latin description (Article 36.1).

T. mnioides var. *urceolatus* (Hedwig) H. Crum, Bryologist 72: 246. 1969.
Basionym: *Splachnum urceolatum* Hedwig, 1801.

T. stenophysatus Herzog, Beih. Bot. Centralbl. 60B: 23. f. 9. 1939.
Other use: *Tayloria stenophysata* (Herzog) A. Koponen, 1977.

T. tomentosus Sehnem, Pesquisas, Bot. 30: 42. pl. 13: c. 1976.
Type: Brazil. Rio Grande do Sul: Sao Francisco de Paula, Serra do Faxinal, 1200 m, *Sehnem 5292*. Herbarium not specified by author.

T. urceolatus (Hedwig) Bruch & W. P. Schimper in B.S.G., 1844.

T. urceolatus var. *longisetus* Gao Chien, Fl. Musc. Chin. Boreali-Orient. 379. f. 100: 11-14. 1977, "*longiseta*."
Type: China. Heilongjiang: Da-chingan-ling, Kuna-Scheiligizi, 700-800 m, *Wang 1680*. Holotype: IFP.

Tetrastichium (Mitten) Cardot, 1908.
T. virens (Cardot) Churchill, J. Bryol. 15: 538. 1989 [before 15 Aug].
Basionym: *Lepidopilum virens* Cardot, 1905.
Note: redundant combination in Dirkse, Lindbergia 14: 150. 1988 [8 Dec 1989].

Thamniopsis (Mitten) Fleischer, 1908.
T. cheiloneura (C. Müller ex Brotherus) Buck, Brittonia 39: 218. 1987.
Basionym: *Hookeria cheiloneura* C. Müller ex Brotherus, 1897.
T. cruegeriana (C. Müller) Buck, Brittonia 39: 218. 1987.
Basionym: *Hookeria cruegeriana* C. Müller, 1851.
T. diffusa (Wilson ex Mitten) Buck, Brittonia 39: 218. 1987.
Basionym: *Hookeria diffusa* Wilson ex Mitten, 1869.
T. incurva (Hornschuch) Buck, Brittonia 39: 218. 1987.
Basionym: *Chaetophora incurva* Hornschuch, 1820.
T. langsdorffii (W. J. Hooker) Buck, Brittonia 39: 218. 1987.
Basionym: *Hookeria langsdorffii* W. J. Hooker, 1819.
T. pappeana (Hampe) Buck, Brittonia 39: 219. 1987.
Basionym: *Hookeria pappeana* Hampe, 1844.
T. purpureophylla (C. Müller ex Britton) Buck, Brittonia 39: 219. 1987.
Basionym: *Hookeria purpureophylla* C. Müller ex Britton, 1896.
T. secunda (Griffith) Buck, Brittonia 39: 219. 1987.
Basionym: *Hookeria secunda* Griffith, 1843.
T. sinuata (Mitten) Buck, Brittonia 39: 219. 1987.
Basionym: *Hookeria sinuata* Mitten, 1869.
T. terrestris (Mitten) Buck, Brittonia 39: 219. 1987.
Basionym: *Hookeria terrestris* Mitten, 1869.
T. undata (Hedwig) Buck, Brittonia 39: 219. 1987.
Basionym: *Leskea undata* Hedwig, 1801.
T. utacamundiana (Montagne) Buck, Brittonia 39: 219. 1987.
Basionym: *Hookeria utacamundiana* Montagne, 1842.
T. versicolor (Mitten) Buck, Brittonia 39: 219. 1987.
Basionym: *Lepidopilum versicolor* Mitten, 1864.

+**Thamnites** Jovet-Ast & Huard, Rev. Bryol. Lichénol. 34: 811. f. 1; pl. 50-51. 1966 [1967].
Type: *T. marginatus* Jovet-Ast & Huard, holotype.
Original placement: Neckeraceae.
+*T. marginatus* Jovet-Ast & Huard, Rev. Bryol. Lichénol. 34: 811. f. 1; pl. 50-51. 1966 [1967].
Type: France. Landes: couche a lignite d'Arjuzanx, *Huard ser. M*, 12. Herbarium not specified by authors. Paratypes cited.

*Thamnium W. P. Schimper in B.S.G., 1852.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Thamnium* Ventenat, 1799.
Correct name: *Thamnobryum* Nieuwland, 1917.

Thamnium, continued.

T. alopecurum (Hedwig) W. P. Schimper in B.S.G., 1852.

T. alopecurum var. *matajurense* Grom, Acta Bot. Croat. 26-27: 249. 1967-68 [1968].

Type: Yugoslavia. Ad montem Matajur, 920 m, *Wraber 554*. Holotype: herb. Grom.

**T. alopecurum* var. *sardoum* Cortini-Pedrotti, Webbia 20: 707. f. 1-3. 1965.

*invalid, single element not cited as holotype (Article 37.3).

Type: no element cited by author.

T. angustifolium Holt, J. Bot. 24: 65. pl. 265: 1-2. 1886.

Other use: *Thamnobryum angustifolium* (Holt) Crundwell, 1971.

T. arbusculosum C. Müller ex Thériot, Rev. Bryol. 48: 54. 1921.

Other use: *Thamnobryum arbusculosum* (C. Müller ex Thériot) H. A. Miller, H. O. Whittier & B. Whittier, 1978.

T. assimile Brotherus in Skottsberg, Nat. Hist. Juan Fernández 2(3): 433. 1924.

Other use: *Thamnobryum assimile* (Brotherus in Skottsberg) Sérgio, 1981.

T. canariense Renauld & Cardot, Bull. Herb. Boissier, sér. 2, 2: 440. pl. 6: f. 11-19. 1902.

Other use: *Thamnobryum canariense* (Renauld & Cardot) D. G. Long in Crundwell, During & D. G. Long, 1978.

T. caroli Brotherus in Skottsberg, Nat. Hist. Juan Fernández 2(3): 431. 1924.

Other use: *Thamnobryum caroli* (Brotherus in Skottsberg) H. Robinson, 1974.

T. comorense (C. Müller) Kindberg, 1902.

T. comorense subsp. *corticola* Kindberg, Hedwigia 41: 250. 1902.

Other use: *Thamnobryum corticola* (Kindberg) Sloover, 1983.

T. coreanum Cardot, Bull. Soc. Bot. Genève, ser. 2, 3: 277. 1911.

Other use: *Thamnobryum coreanum* (Cardot) Noguchi & Iwatsuki in Iwatsuki, 1972.

T. cossyrense Bottini, Webbia 2: 361. 1907.

Other use: *Thamnobryum cossyrense* (Bottini) A. J. E. Smith, 1981 [1982].

T. grandirete Brotherus & M. Yasuda, Oefers. Förh. Finska Vetensk.-Soc. 64A(9): 25. 1921.

Other use: *Thamnobryum grandirete* (Brotherus & M. Yasuda) Noguchi & Iwatsuki in Iwatsuki, 1972.

T. incurvum Noguchi, J. Jap. Bot. 13: 786. f. 2: 1-7. 1937.

Other use: *Thamnobryum incurvum* (Noguchi) Noguchi & Iwatsuki in Iwatsuki, 1972.

T. ingae Brotherus in Skottsberg, Nat. Hist. Juan Fernández 2(3): 432. 1924.

Other use: *Thamnobryum ingae* (Brotherus in Skottsberg) H. Robinson, 1974.

T. latifolium (Bosch & Sande Lacoste) Jaeger, 1877.

T. latifolium var. *japonicum* Sakurai, Bot. Mag. (Tokyo) 46: 376. 1932.

Other use: *Thamnobryum plicatulum* var. *japonicum* (Sakurai) Noguchi & Iwatsuki in Iwatsuki, 1972.

Thamnium, continued.

T. natalense (C. Müller) Kindberg, 1902.

T. natalense subsp. *borbonicum* Kindberg, Hedwigia 41: 240. 1902.
Other use: *Porothamnium natalense* subsp. *borbonicum* (Kindberg) Wijk & Margadant, 1965.

T. negrosense E. B. Bartram, Philipp. J. Sci. 68: 250. f. 314. 1939.
Other use: *Thamnobryum negrosense* (E. B. Bartram) Iwatsuki & B. C. Tan, 1977.

T. planifrons Brotherus & M. Yasuda, Oefers. Förh. Finska Vetensk.-Soc. 62A(9): 25. 1921.
Other use: *Thamnobryum planifrons* (Brotherus & M. Yasuda) Noguchi & Iwatsuki in Iwatsuki, 1972.

T. plicatulum Sande Lacoste, Ann. Mus. Bot. Lugduno-Batavum 2: 299. 1866.
Other use: *Thamnobryum plicatulum* (Sande Lacoste) Iwatsuki, 1972.

T. proboscideum Brotherus in Skottsberg, Nat. Hist. Juan Fernández 2(3): 433. 1924.
Other use: *Thamnobryum proboscideum* (Brotherus in Skottsberg) H. Robinson, 1974.

T. quisumbingii Veloira, Bryologist 62: 108. f. 8-12. 1959.
Other use: *Thamnobryum quisumbingii* (Veloira) Iwatsuki & B. C. Tan, 1977.

T. sandei Bescherelle, Ann. Sci. Nat. Bot., ser. 7, 17: 381. 1893.
Replaced name: *Neckera subseriata* Dozy & Molkenboer in Sande Lacoste, 1866.
Blocking name: *Neckera subserrata* W. J. Hooker, 1836.
Other use: *Thamnobryum sandei* (Bescherelle) Iwatsuki, 1972.

T. sandei var. *angustifolium* Noguchi, J. Hattori Bot. Lab. 4: 34. 1950.
Other use: *Thamnobryum sandei* var. *angustifolium* (Noguchi) Noguchi & Iwatsuki in Iwatsuki, 1972.

T. sandei var. *cymbifolium* Cardot, Bull. Soc. Bot. Genève, ser. 2, 3: 278. 1911.
Other use: *Thamnobryum sandei* var. *cymbifolium* (Cardot) Noguchi & Iwatsuki in Iwatsuki, 1972.

T. sandei var. *imbricatum* Noguchi, J. Hattori Bot. Lab. 4: 34. 1950.
Other use: *Thamnobryum sandei* var. *imbricatum* (Noguchi) Noguchi & Iwatsuki in Iwatsuki, 1972.

T. sandei var. *longisetum* Noguchi, J. Hattori Bot. Lab. 4: 34. 1950.
Other use: *Thamnobryum sandei* var. *longisetum* (Noguchi) Noguchi & Iwatsuki in Iwatsuki, 1972.

T. siamense Horikawa & Ando in Kira & Umesao, Nat. & Life Southe. Asia 3: 23. 1964.
Type: Thailand. Doi Inthanon, 2300-2550 m, *Ogawa 67839*. Holotype: HIRO. Paratype cited.
Other use: *Pinnatella siamensis* (Horikawa & Ando in Kira & Umesao) Noguchi, 1986, *Thamnobryum siamense* (Horikawa & Ando in Kira & Umesao) Noguchi in Iwatsuki & Noguchi, 1975.

T. speciosum Brotherus, Bernice P. Bishop Mus. Bull. 40: 23. pl. 5: f. 17. 1927.
Other use: *Thamnobryum speciosum* (Brotherus) Hoe, 1974.

Thamnium, continued.

T. sublatifolium Dixon, Proc. Linn. Soc. New South Wales 55: 287. pl. 9: f. 18. 1930.

Other use: *Thamnobryum sublatifolium* (Dixon) Schultze-Motel, 1973.

T. subseriatum Mitten ex Sande Lacoste, Ann. Mus. Bot. Lugduno-Batavum 2: 299. 1866.

Other use: *Thamnobryum subseriatum* (Mitten ex Sande Lacoste) B. C. Tan, 1989.

Note: treated as invalid in Index Muscorum and cited from J. Linn. Soc., Bot. 8: 155. 1864. See Tan, Brittonia 41: 41-43. 1989.

T. tumidicaule K. A. Wagner, Bryologist 55: 145. f. 1-6. 1952.

Other use: *Thamnobryum tumidicaule* (K. A. Wagner) F. D. Bowers, 1974.

T. tumidum Noguchi, Trans. Nat. Hist. Soc. Taiwan 26: 40. f. 3: 5-8. 1936.

Other use: *Thamnobryum tumidum* (Noguchi) Noguchi & Iwatsuki in Iwatsuki, 1972.

T. vorobjovii Lazarenko, Trudy Dal'nevost. Fil. Akad. Nauk SSSR, Ser. Bot. 2: 897. 1937.

Other use: *Thamnobryum vorobjovii* (Lazarenko) Bardunov & Czerdantseva, 1982.

Thamnobryum Nieuwland, 1917.

T. alopecurum (Hedwig) Nieuwland ex Gangulee, Mosses E. India 5: 1452. 1976.

Basionym: *Hypnum alopecurum* Hedwig, 1801.

T. alopecurum fo. *protensum* (Turner) Düll, Cryptog. Bryol. Lichénol. 1: 178. 1980.

Basionym: *Hypnum alopecurum* var. *protensum* Turner, 1804.

Note: valid, error of bibliographic citation of basionym (Article 33.2), "*Thamnium alopecurum* var. *protensum* Turner."

T. aneitense (Mitten in Seemann) Schultze-Motel, Willdenowia 7: 64. 1973.

Basionym: *Porotrichum aneitense* Mitten in Seemann, 1873.

T. angustifolium (Holt) Crundwell, Trans. Brit. Bryol. Soc. 6: 325. 1971.

Basionym: *Thamnium angustifolium* Holt, 1886.

T. arbusculosum (C. Müller ex Thériot) H. A. Miller, H. O. Whittier & B. Whittier, Bryoph. Biblioth. 16: 277. 1978.

Basionym: *Thamnium arbusculosum* C. Müller ex Thériot, 1921.

T. assimile (Brotherus in Skottsberg) Sérgio, Bol. Soc. Brot., ser. 2, 53: 1125. 1981.

Basionym: *Thamnium assimile* Brotherus in Skottsberg, 1924.

T. canariense (Renauld & Cardot) D. G. Long in Crundwell, During & D. G. Long, J. Bryol. 10: 110. 1978.

Basionym: *Thamnium canariense* Renauld & Cardot, 1902.

T. caroli (Brotherus in Skottsberg) H. Robinson, Phytologia 29: 117. 1974, "*carolii*."

Basionym: *Thamnium caroli* Brotherus in Skottsberg, 1924.

T. confertum (Mitten) H. Robinson, Phytologia 29: 117. 1974.

Basionym: *Porotrichum confertum* Mitten, 1885.

Thamnobryum, continued.

T. coreanum (Cardot) Noguchi & Iwatsuki in Iwatsuki, Misc. Bryol. Lichenol. 6: 33. 1972.
Basionym: *Thamnium coreanum* Cardot, 1911.

T. corticola (Kindberg) Sloover, Bull. Jard. Bot. Natl. Belgique 53: 149. 1983.
Basionym: *Thamnium comorense* subsp. *corticola* Kindberg, 1902.

T. cossyrense (Bottini) A. J. E. Smith, J. Bryol. 11: 605. 1981 [1982].
Basionym: *Thamnium cossyrense* Bottini, 1907.

T. ellipticum (Bosch & Sande Lacoste) Noguchi & Iwatsuki, J. Hattori Bot. Lab. 36: 470. 1972.
Basionym: *Porotrichum ellipticum* Bosch & Sande Lacoste, 1863.
Note: redundant combination in Schultze-Motel, Willdenowia 7: 64. 1973.

T. fernandesii Sérgio, Bol. Soc. Brot., ser. 2, 53: 1125. f. 1-8. 1981.
Type: Madeira. Riv. Joao Fernandes, pr. Boaventura, *Nobrega Z63*. Holotype: MADS; isotype: LISU.

T. fruticosum (Mitten) Gangulee, Mosses E. India 5: 1447. 1976.
Basionym: *Neckera fruticosa* Mitten, 1859.

T. grandirete (Brotherus & M. Yasuda) Noguchi & Iwatsuki in Iwatsuki, Misc. Bryol. Lichenol. 6: 33. 1972.
Basionym: *Thamnium grandirete* Brotherus & M. Yasuda, 1921.

T. incurvum (Noguchi) Noguchi & Iwatsuki in Iwatsuki, Misc. Bryol. Lichenol. 6: 33. 1972.
Basionym: *Thamnium incurvum* Noguchi, 1937.

T. ingae (Brotherus in Skottsberg) H. Robinson, Phytologia 29: 117. 1974.
Basionym: *Thamnium ingae* Brotherus in Skottsberg, 1924.

T. macrocarpum (Bridel) Gangulee, Mosses E. India 5: 1454. 1976.
Basionym: *Neckera macrocarpa* Bridel, 1827.

T. neckeroides (W. J. Hooker) E. Lawton, Moss Fl. Pacific Northwest 245. 1971.
Basionym: *Hypnum neckeroides* W. J. Hooker, 1818.

T. negrosense (E. B. Bartram) Iwatsuki & B. C. Tan, Misc. Bryol. Lichenol. 7: 152. 1977.
Basionym: *Thamnium negrosense* E. B. Bartram, 1939.

T. obtusatum (Lindberg & H. Arnell) Bardunov & Czerdantseva, Listos. Mhi Yuzhnogo Primor'ya 71. 1982.
Basionym: *Porotrichum obtusatum* Lindberg & H. Arnell, 1890.

T. pandum (J. D. Hooker & Wilson) Steere & G. A. M. Scott, J. Bryol. 7: 605. 1973 [1974].
Basionym: *Isothecium pandum* J. D. Hooker & Wilson, 1854.

T. parvulum (Mitten) R. S. Chopra, Bryologist 80: 544. 1977.
Basionym: *Neckera parvula* Mitten, 1859.
Note: invalid, basionym not cited (Article 33.2), in Taxon. Indian Mosses 377. 1975.

T. planifrons (Brotherus & M. Yasuda) Noguchi & Iwatsuki in Iwatsuki, Misc. Bryol. Lichenol. 6: 33. 1972.
Basionym: *Thamnium planifrons* Brotherus & M. Yasuda, 1921.

Thamnobryum, continued.

T. plicatulum (Sande Lacoste) Iwatsuki, Misc. Bryol. Lichenol. 6: 33. 1972.
Basionym: *Thamnium plicatulum* Sande Lacoste, 1866.

T. plicatulum var. *japonicum* (Sakurai) Noguchi & Iwatsuki in Iwatsuki, Misc. Bryol. Lichenol. 6: 33. 1972.
Basionym: *Thamnium latifolium* var. *japonicum* Sakurai, 1932.

T. proboscideum (Brotherus in Skottsberg) H. Robinson, Phytologia 29: 117. 1974.
Basionym: *Thamnium proboscideum* Brotherus in Skottsberg, 1924.

T. quisumbingii (Veloira) Iwatsuki & B. C. Tan, Misc. Bryol. Lichenol. 7: 152. 1977.
Basionym: *Thamnium quisumbingii* Veloira, 1959.

T. rigidum (Mitten) H. Robinson, Phytologia 29: 118. 1974.
Basionym: *Porotrichum rigidum* Mitten, 1869.

T. sandei (Bescherelle) Iwatsuki, Misc. Bryol. Lichenol. 6: 33. 1972.
Basionym: *Thamnium sandei* Bescherelle, 1893.

T. sandei var. *angustifolium* (Noguchi) Noguchi & Iwatsuki in Iwatsuki, Misc. Bryol. Lichenol. 6: 33. 1972.
Basionym: *Thamnium sandei* var. *angustifolium* Noguchi, 1950.

T. sandei var. *cymbifolium* (Cardot) Noguchi & Iwatsuki in Iwatsuki, Misc. Bryol. Lichenol. 6: 33. 1972.
Basionym: *Thamnium sandei* var. *cymbifolium* Cardot, 1911.

T. sandei var. *imbricatum* (Noguchi) Noguchi & Iwatsuki in Iwatsuki, Misc. Bryol. Lichenol. 6: 33. 1972.
Basionym: *Thamnium sandei* var. *imbricatum* Noguchi, 1950.
Note: redundant combination in Noguchi & Iwatsuki, J. Jap. Bot. 48: 217. 1973.

T. sandei var. *longisetum* (Noguchi) Noguchi & Iwatsuki in Iwatsuki, Misc. Bryol. Lichenol. 6: 33. 1972.
Basionym: *Thamnium sandei* var. *longisetum* Noguchi, 1950.

T. schmidii (C. Müller) R. S. Chopra, Bryologist 80: 544. 1977.
Basionym: *Hypnum schmidii* C. Müller, 1854.
Note: invalid, basionym not cited (Article 33.2), in Taxon. Indian Mosses 377. 1975.

T. siamense (Horikawa & Ando in Kira & Umesao) Noguchi in Iwatsuki & Noguchi, Bull. Univ. Mus. Univ. Tokyo 8: 272. 1975.
Basionym: *Thamnium siamense* Horikawa & Ando in Kira & Umesao, 1964.

T. speciosum (Brotherus) Hoe, Lyonia 1: 24. 1974.
Basionym: *Thamnium speciosum* Brotherus, 1927.

T. sublatifolium (Dixon) Schultze-Motel, Willdenowia 7: 64. 1973.
Basionym: *Thamnium sublatifolium* Dixon, 1930.

T. subseriatum (Mitten ex Sande Lacoste) B. C. Tan, Brittonia 41: 42. 1989.
Basionym: *Thamnium subseriatum* Mitten ex Sande Lacoste, 1866.

Thamnobryum, continued.

T. subserratum (W. J. Hooker) Noguchi & Iwatsuki, J. Hattori Bot. Lab. 36: 470. 1972.
Basionym: *Neckera subserrata* W. J. Hooker, 1836.
Note: redundant combination in R. S. Chopra, Bryologist 80: 544. 1977.

T. tumidicaule (K. A. Wagner) F. D. Bowers, Bryologist 77: 162. 1974.
Basionym: *Thamnium tumidicaule* K. A. Wagner, 1952.

T. tumidum (Noguchi) Noguchi & Iwatsuki in Iwatsuki, Misc. Bryol. Lichenol. 6: 33. 1972.
Basionym: *Thamnium tumidum* Noguchi, 1936.

T. vorobjovii (Lazarenko) Bardunov & Czerdantseva, Listos. Mhi Yuzhnogo Primor'ya 71. 1982.
Basionym: *Thamnium vorobjovii* Lazarenko, 1937.

Theriotia Cardot, 1904.

T. kashmirensis H. Robinson, Bryologist 68: 314. f. 4-7. 1965.
Type: Pakistan. Baltistan: Karakorum Range, upper Hushe Valley, Atosar Valley, 12,500 feet, *Webster & Nasir 6173a*. Holotype: US; isotype: PUL.

Thuidium Bruch & W. P. Schimper in B.S.G., 1852.

**T. atrovirens* Brotherus in H. P. Ramsay, Taxon 29: 468. 1980.
*invalid, no Latin description (Article 36.1).

T. brachymenium Herzog, Hedwigia 65: 164. f. 6. 1925.
Other use: *Thuidium haplohymenium* var. *brachymenium* (Herzog) Vohra, 1983.

T. ciliarifolium R. Watanabe, J. Jap. Bot. 53: 369. f. 1. 1978.
Type: Samoa., *Powell s.n.* Holotype: NY; isotype: TNS.

T. contortulum (Mitten) Jaeger, 1878.

T. contortulum var. *mussooriense* Vohra, Bull. Bot. Surv. India 22: 124. f. 42-53. 1980 [1982].
Type: India. Mussoorie, Himalayas, 1830-2135 m, *Duthie*, 1895. Holotype: CAL.

T. decipiens De Notaris, Atti R. Univ. Genova 1: 233. 1869.
Other use: *Palustriella decipiens* (De Notaris) Ochyra, 1989.

T. delicatulum (Hedwig) W. P. Schimper in B.S.G., 1852.

T. delicatulum var. *peruvianum* (Mitten) H. Crum, Bryologist 87: 211. 1984.
Basionym: *Thuidium peruvianum* Mitten, 1869.

T. delicatulum var. *radicans* (Kindberg) H. Crum, Steere & L. E. Anderson, Bryologist 68: 434. 1965 [1966].
Basionym: *Thuidium recognitum* var. *radicans* Kindberg, 1892.

T. discolor Brotherus & Paris, Rev. Bryol. 31: 58. 1904.
Other use: *Bryohaplocladium discolor* (Brotherus & Paris) R. Watanabe & Iwatsuki, 1981.

T. dubiosum Warnstorf, Z. Naturwiss. Ges. Harz. 9: 4. 1896.
Other use: *Thuidium recognitum* var. *dubiosum* (Warnstorf) Wijk & Margadant, 1965.

Thuidium, continued.

T. elodioides Renauld & Cardot in Röll, Hedwigia 32: 308. 1893.
Other use: *Helodium blandowii* var. *elodioides* (Renauld & Cardot in Röll) H. Crum, Steere & L. E. Anderson, 1965 [1966].

**T. fauriei* Brotherus & Paris, Bull. Herb. Boissier, sér. 2, 2: 928. 1902.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Thuidium fauriei* Paris, 1898.
Other use: *Haplocladium fauriei* R. Watanabe, 1963.

T. gratum (Palisot de Beauvois) Jaeger, 1878.

T. gratum subsp. *subscissum* (C. Müller ex Bescherelle) Touw, Lindbergia 3: 158. 1976.
Basionym: *Thuidium subscissum* C. Müller ex Bescherelle, 1880.

T. haplohymenium (Harvey) Jaeger, 1878.

T. haplohymenium var. *brachymenium* (Herzog) Vohra, Rec. Bot. Surv. India 23: 122. 1983.
Basionym: *Thuidium brachymenium* Herzog, 1925.

T. indicum R. Watanabe, J. Jap. Bot. 52: 273. f. 1. 1977.
Type: India. Nilgiri, *Beddome 40*. Holotype: NY. Other indicated distribution: Nepal.

T. involvens (Hedwig) Mitten, 1869.

T. involvens subsp. *thomeanum* (Brotherus) Touw, Lindbergia 3: 168. 1976.
Basionym: *Thuidium involvens* var. *thomeanum* Brotherus, 1890.

T. involvens var. *thomeanum* Brotherus, Bol. Soc. Brot. 8: 183. 1890.
Other use: *Thuidium involvens* subsp. *thomeanum* (Brotherus) Touw, 1976.

T. koeltzii H. Robinson, Bryologist 71: 92. 1968.
Type: India. Assam: Mawphlang, 6000 feet, *Koelz 31400*. Holotype: US; isotype: MICH.

T. kuripanum (Dozy & Molkenboer in Zollinger) R. Watanabe, J. Jap. Bot. 62: 90. 1987.
Basionym: *Hypnum kuripanum* Dozy & Molkenboer in Zollinger, 1855.

T. microphyllum (Hedwig) Jaeger, 1878.

T. microphyllum var. *obtusum* Grout, Moss Fl. N. Amer. 3: 178. 1932.
Other use: *Haplocladium microphyllum* var. *obtusum* (Grout) H. Crum, Steere & L. E. Anderson, 1964.

T. molkenboeri Sande Lacoste, Ann. Mus. Bot. Lugduno-Batavum 2: 298. pl. 10. 1866.
Other use: *Bryonoguchia molkenboeri* (Sande Lacoste) Iwatsuki & H. Inoue, 1970.

T. patrum Sehnem, Pesquisas, Bot. 30: 52. pl. 15: b. 1976.
Type: Brazil. Santa Catarina: Bom Retiro, Campo dos Padres, 1700 m, *Sehnem 7044*. Herbarium not specified by author.

T. pelekinoides Chen Pan-chieh, Sunyatsenia 6: 190. f. 23. 1941.
Note: not in Index Muscorum.

T. peruvianum Mitten, J. Linn. Soc., Bot. 12: 578. 1869.
Other use: *Thuidium delicatulum* var. *peruvianum* (Mitten) H. Crum, 1984.

Thuidium, continued.
T. recognitum (Hedwig) Lindberg, 1874.
T. recognitum var. *dubiosum* (Warnstorf) Wijk & Margadant, Taxon 14: 198. 1965.
Basionym: *Thuidium dubiosum* Warnstorf, 1896.
T. recognitum var. *radicans* Kindberg, Rev. Bryol. 19: 103. 1892.
Other use: *Thuidium delicatulum* var. *radicans* (Kindberg) H. Crum, Steere & L. E. Anderson, 1965 [1966].
T. sachalinense Lindberg, Contr. Fl. Crypt. As. [Acta Soc. Sci. Fenn. 10:] 244. 1872, "*sachalinensis*."
Other use: *Bryochenea sachalinensis* (Lindberg) Gao Chien & Chang Kung-chu, 1982.
T. sharpii H. Crum, Bryologist 87: 211. f. 26-33. 1984.
Type: Mexico. Sierra Juarez, 25 miles above Valle Nacional on Hwy. 175, *Sharp, Bowers, Smith, Hattaway & Somers 4732a*. Holotype: MICH; isotype: TENN.
T. sparsum (Hooker & Wilson) Jaeger, 1878.
T. sparsum var. *hastatum* (Mitten) Touw & Falter-van den Haak, J. Hattori Bot. Lab. 67: 24. 1989.
Basionym: *Leskea hastata* Mitten, 1859.
T. squarrosulum Renauld & Cardot, 1899.
T. squarrosulum var. *scabrisetum* Vohra, Bull. Bot. Surv. India 22: 124. 1980 [1982].
Type: Bhutan. Himalayas, Lumichawa, 2500 m, *Vohra 2435*. Holotype: CAL.
T. strictulum Cardot, Beih. Bot. Centralbl. 17: 29. f. 18. 1904.
Other use: *Bryohaplocladium strictulum* (Cardot) R. Watanabe & Iwatsuki, 1981.
**T. subliliputanum* Brotherus ex H. P. Ramsay, Taxon 29: 468. 1980.
*invalid, no Latin description (Article 36.1).
T. subscissum C. Müller ex Bescherelle, Ann. Sci. Nat. Bot., ser. 6, 10: 290. 1880.
Other use: *Thuidium gratum* subsp. *subscissum* (C. Müller ex Bescherelle) Touw, 1976.
T. synoicum Touw in Touw & Falter-van den Haak, J. Hattori Bot. Lab. 67: 47. f. 12: b, 15. 1989.
Type: Solomon Islands. Bougainville: Tinputz District, Hakau Plantation, *Korea 1*. Holotype: L; isotypes: CBG, LAE, NICH, NY. Other indicated distribution: Australia, New Britain, New Guinea.
T. vancouveriense Kindberg, Bull. Torrey Bot. Club 17: 277. 1890.
Other use: *Porotrichum vancouveriense* (Kindberg) H. Crum, 1987.

***Thyridium** Mitten, J. Linn. Soc., Bot. 10: 188. 1868.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Thyridium* Nitschke, 1867.
Correct name: *Mitthyridium* H. Robinson, 1975.

Thyridium, continued.

T. andamense Bescherelle ex Gangulee, Mosses E. India 3: 581. f. 277. 1972.
Type: India. Andaman and Nicobar: Port Blair, Phoenix Bay, *Kurz s.n.* Holotype: BM.
Note: invalid, no description (Article 36.1), in Bescherelle, Ann. Sci. Nat. Bot., ser. 8, 1: 276. 1895.

T. cardotii Fleischer, Musci Buitenzorg 1: 228. f. 34. 1904, "*cardoti*."
Other use: *Mitthyridium cardotii* (Fleischer) H. Robinson, 1975.

T. constrictum (Sullivant) Mitten, 1868.

T. constrictum var. *neocaledonicum* (Thériot) H. A. Miller, H. O. Whittier & B. Whittier, Bryoph. Biblioth. 16: 282. 1978.
Basionym: *Syrrhopodon constrictus* var. *neocaledonicus* Thériot, 1921.

T. constrictum var. *tahiticum* (Bescherelle) H. A. Miller, H. O. Whittier & B. Whittier, Bryoph. Biblioth. 16: 282. 1978.
Basionym: *Syrrhopodon constrictus* var. *tahiticus* Bescherelle, 1898.

T. cuspidatum Fleischer, Musci Buitenzorg 1: 235. 1904.
Other use: *Mitthyridium cuspidatum* (Fleischer) H. Robinson, 1975.

T. fleischeri Schultze-Motel, Willdenowia 7: 366. 1974.
Type: Samoa. Upolu, Berg Lanoto's ("Lanutoo"), *Fleischer B1197*. Holotype: B.
Other use: *Mitthyridium fleischeri* (Schultze-Motel) H. Robinson, 1975.

T. letestui Thériot & Potier de la Varde, Bull. Soc. Bot. France 72: 353. f. 4. 1925.
Other use: *Mitthyridium letestui* (Thériot & Potier de la Varde) H. Robinson, 1975.

T. luteum Mitten, J. Linn. Soc., Bot. 10: 188. 1868.
Other use: *Mitthyridium luteum* (Mitten) H. Robinson, 1975.

T. manii Fleischer, Musci Buitenzorg 1: 235. 1904.
Other use: *Mitthyridium manii* (Fleischer) H. Robinson, 1975.

T. manii var. *minus* Fleischer, Musci Buitenzorg 1: 236. 1904, "*minor*."
Other use: *Mitthyridium repens* var. *minus* (Fleischer) B. C. Tan & Mohamed in Mohamed & B. C. Tan, 1988.

T. megamorphum Fleischer, Bot. Jahrb. Syst. 55: 30. 1917.
Other use: *Mitthyridium megamorphum* (Fleischer) H. Robinson, 1975.

T. nicobaricum Brotherus ex Gangulee, Mosses E. India 3: 588. f. 281. 1972.
Type: India. Nicobara, *Kurz 3865*. Holotype: H-Brotherus.

T. obtusifolium (Lindberg) Fleischer, 1904.

T. obtusifolium var. *neocaledonicum* (Thériot) H. A. Miller, H. O. Whittier & B. Whittier, Bryoph. Biblioth. 16: 283. 1978.
Basionym: *Syrrhopodon obtusifolius* var. *neocaledonicus* Thériot, 1910.

T. parvifolium E. B. Bartram, J. Wash. Acad. Sci. 46: 393. 1956.
Other use: *Mitthyridium parvifolium* (E. B. Bartram) H. Robinson, 1975.

Thyridium, continued.

T. parvulum Jaeger, Ber. Thätigk. St. Gallischen Naturwiss. Ges. 1877-78: 415 (Gen. Sp. Musc. 2: 1433). 1880.
Replaced name: *Syrrhopodon parvulus* Thwaites & Mitten, 1873.
Blocking name: *Syrrhopodon parvulus* W. P. Schimper in C. Müller, 1849.
Other use: *Mitthyridium parvulum* (Jaeger) H. Robinson, 1975.
Note: new name, based on adoption of earlier epithet (Article 72.Note 1).

T. piluliferum (Dixon) Gangulee, J. Bombay Nat. Hist. Soc. 60: 626. 1963 [1964], "*pilulifer*."
Basionym: *Syrrhopodon pilulifer* Dixon, 1937.

T. rubiginosum (Mitten) Jaeger, Ber. Thätigk. St. Gallischen Naturwiss. Ges. 1877-78: 415 (Gen. Sp. Musc. 2: 1433). 1879.
Basionym: *Syrrhopodon rubiginosus* Mitten, 1869.
Note: redundant combination in Crum, Advancing Frontiers Pl. Sci. 21: 190. 1968.

T. samoanum Schultze-Motel, Willdenowia 7: 367. 1974.
Type: Samoa. Upolu, Berg Lanoto's ("Lanutoo"), *Fleischer B1199*. Holotype: B.
Other use: *Mitthyridium samoanum* (Schultze-Motel) H. Robinson, 1975.

Thysanomitrion Schwägrichen, 1823.

T. abbreviatum Dixon, Bull. Torrey Bot. Club 51: 227. pl. 3: f. 3. 1924.
Other use: *Campylopus abbreviatus* (Dixon) Manuel, 1981.

T. alatum Brotherus ex Iishiba, Cat. Moss. Japan 33. 1929.
Other use: *Campylopus alatus* (Brotherus ex Iishiba) Iwatsuki & Noguchi, 1973.

T. arenaceum Brotherus, Akad. Wiss. Wien, Math.-Naturwiss. Kl., Denkschr. 83: 264. 1927.
Other use: *Campylopus arenaceus* (Brotherus) Frahm, 1974.

T. laetevirens Brotherus, Acta Horti Gothob. 1: 189. 1924.
Other use: *Campylopus laetevirens* (Brotherus) Frahm, 1975.

T. ridleyi Dixon, Bull. Torrey Bot. Club 51: 227. pl. 3: f. 4. 1924.
Other use: *Campylopus ridleyi* (Dixon) Manuel, 1981.

T. schiffneri Brotherus, Akad. Wiss. Wien, Math.-Naturwiss. Kl., Denkschr. 83: 265. 1927.
Other use: *Campylopus schiffneri* (Brotherus) Frahm, 1974.

Timmia Hedwig, 1801, conserved name.

T. sect. *Timmiaurea* Brassard, Lindbergia 5: 40. 1979.
Type: *T. austriaca* Hedwig, holotype.

T. austriaca Hedwig, 1801.

**T. austriaca* var. *papillosa* G. Philippi, Ergebn. Stauferland-Exped. 7: 19. 1973.
*invalid, single element not cited as holotype (Article 37.3).
Type: Norway. Svalbard, Barentsinsel, Seelisberg, 160 m, collector not indicated by author. Herbarium: KR.
Note: not *T. austriaca* var. *papillosa* Hessler, 1910.

Timmia, continued.
T. bavarica Hessler, De Timmia 19. f. 3. 1822.
Other use: *Timmia megapolitana* subsp. *bavarica* (Hessler) Brassard, 1984.
T. comata Lindberg & H. Arnell, Kongl. Svenska Vetensk. Acad. Handl. 23(10): 24. 1890.
Other use: *Timmia norvegica* var. *comata* (Lindberg & H. Arnell) H. Crum, 1967.
T. megapolitana Hedwig, 1801.
T. megapolitana subsp. *bavarica* (Hessler) Brassard, Lindbergia 10: 34. 1984.
Basionym: *Timmia bavarica* Hessler, 1822.
T. norvegica J. E. Zetterstedt, 1862.
T. norvegica var. *comata* (Lindberg & H. Arnell) H. Crum, Canad. Field-Naturalist 81: 114. 1967.
Basionym: *Timmia comata* Lindberg & H. Arnell, 1890.

Timmiella (De Notaris) Limpricht in Rabenhorst, 1888.
T. alata Herzog, Arch. Bot. Sao Paulo 1(2): 61. f. 7: a-c. 1925.
Other use: *Hymenostyliella alata* (Herzog) H. Robinson, 1971.
T. pelindaba Magill in Magill & Schelpe, Mem. Bot. Surv. South Africa 43: 3. f. 9-19. 1979.
Type: South Africa. Transvaal: Pelindaba, *Bosman PRE-CH1607*. Holotype: PRE; isotypes: H, L, MO, NY.

+ **Tinca** Plamada & Givulescu, Rev. Bryol. Lichénol. 45: 418. 1979.
Type: *T. denticulata* Plamada & Givulescu, holotype.
Original placement: not indicated by authors.
+ *T. denticulata* Plamada & Givulescu, Rev. Bryol. Lichénol. 45: 418. pl. 1-2: 1-2. 1979.
Type: Romania. Bihor: pag. Tinca in valle Crisul Negru, orientem versus ad 22 km procul a urbe Salonta, alt. 120 m, *Givulescu*, 1974 (P. 25401/1978). Holotype: Inst. Geol. Geoph. Bucurestiensis.

Tomentypnum Loeske, Deutsche Bot. Monatsschr. 22: 82. 1911.
Other use: *Homalothecium* subgen. *Tomentypnum* (Loeske) H. Robinson, 1962 [1963].
T. falcifolium (Renauld ex Nichols) Tuomikoski in Ahti & Fagerstén, Ann. Bot. Fenn. 4: 435. 1967.
Basionym: *Camptothecium nitens* var. *falcifolium* Renauld ex Nichols, 1913.

Tortella (Lindberg) Limpricht in Rabenhorst, 1888, conserved name.
T. arctica (Arnold) Crundwell & Nyholm, Bryologist 66: 184. 1963 [1964].
Basionym: *Mollia tortuosa* var. *arctica* Arnold, 1913.

Tortella, continued.

T. bryotropica Zander in Schultze-Motel & Menzel, Beih. Nova Hedwigia 88: 21. f. 1. 1987.
Type: Peru. Amazonas: Prov. Chachapoyas, Chachapoyas-Cajamarca road at km 417.5, above Leimebamba, *Frahm et al. 938*. Holotype: BUF; isotypes: B, G, U. Paratypes cited.

T. densa (Lorentz & Molendo in Lorentz) Crundwell & Nyholm, Trans. Brit. Bryol. Soc. 4: 188. 1962 [1963].
Basionym: *Barbula inclinata* var. *densa* Lorentz & Molendo in Lorentz, 1864.

T. flavovirens (Bruch in F. A. Mueller) Brotherus, 1902.

T. flavovirens var. *papilosissima* Sérgio & C. Casas, Portugaliae Acta Biol., Ser. B, Sist. 13: 116. f. 1-3. 1981.
Type: Spain. Pr. clv. vulg. Estepona in Los Reales, *Sérgio 2.217*. Holotype: LISU.

T. fragilis (Brotherus) Limpricht, 1888.

T. fragilis var. *tortelloides* (S. W. Greene in S. W. Greene et al.) Zander & Hoe, Bryologist 82: 84. 1979.
Basionym: *Sarconeurum tortelloides* S. W. Greene in S. W. Greene et al., 1970.

T. inclinata (R. A. Hedwig in Weber & D. Mohr) Limpricht, 1888.

T. inclinata fo. *alpina* Tosco, Webbia 28: 284. 1973.
Type: Italy. Paradiso, Parco Nazionale, Alta Valle di Rhemes, 2600 m, "sine coll.," 1971. Holotype: herb. Tosco.
Note: lack of information on the type specimen prevented the authors' citing a locality and collector, and this name should be treated as valid and an exception to Article 37.3.

T. mollissima Brotherus ex E. B. Bartram, Bryologist 50: 203. 1947.
Other use: *Trichostomum mollissimum* (Brotherus ex E. B. Bartram) H. Crum, 1969.

T. nitida (Lindberg) Brotherus, 1902.

T. nitida fo. *alpigena* Grom, Acta Bot. Croat. 26-27: 249. 1967-68 [1968].
Type: Yugoslavia. Ad montem Razor in Alpibus Julicis, 2200 m, *Wraber 93*. Holotype: herb. Grom.

T. obtusifolia Dixon, S. African J. Sci. 18: 311. 1922.
Other use: *Barbula umtaliensis* Magill in Magill & Schelpe, 1979.

T. opaca Dixon, S. African J. Sci. 18: 311. 1922.
Other use: *Weissia opaca* (Dixon) Magill in Magill & Schelpe, 1979.

T. santosii E. B. Bartram, Bryologist 50: 58. f. 1-7. 1947.
Other use: *Streptocalypta santosii* (E. B. Bartram) Zander, 1982 [1983].

T. simplex H. Robinson in H. Robinson, Holm-Nielsen & Lojtnant, Lindbergia 4: 109. f. 3. 1977.
Type: Ecuador. Azuay: km 91 on Pan American Highway N of Loja, 2900 m, *Holm-Nielsen et al. 4870*. Holotype: AAU; isotype: US.

T. smithii C. C. Townsend, Trans. Brit. Bryol. Soc. 5: 791. f. 1. 1969.
Type: Socotra. Majhah escarpment, Hammaderoh, 790 m, *Smith B.3*. Holotype: BM; isotype: herb. Townsend.

Tortella, continued.

T. tortelloides (S. W. Greene in S. W. Greene et al.) H. Robinson, Antarc. Res. Ser., Amer. Geophys. Union 20: 170. 1972.
Basionym: *Sarconeurum tortelloides* S. W. Greene in S. W. Greene et al., 1970.

T. undulatifolia Dixon, Anniv. Vol. Bot. Gard. Calcutta 180. 1942.
Note: not in Index Muscorum.

Tortula Hedwig, 1801, conserved name.

T. sect. *Fallaces* De Notaris, Mem. Reale Accad. Sci. Torino 40: 287. 1838.
Other use: *Didymodon* sect. *Fallaces* (De Notaris) Zander, 1979.

T. abranchesii Luisier, Bróteria, Sér. Bot. 14: 115. f. 3. 1916, "*abranchesi*."
Other use: *Tortula caninervis* var. *abranchesii* (Luisier) W. Kramer, 1980.

T. acletoi H. Robinson, Phytologia 21: 390. f. 5-7. 1971.
Type: Peru. Lima: Prov. Canta, Huascoy, 2800 m, *Acleto 1468*. Holotype: US.

T. acuta Bridel, Muscol. Recent. Suppl. 1: 265. 1806.
Other use: *Didymodon acutus* (Bridel) K. Saito, 1975.

T. ammonsiana H. Crum & L. E. Anderson, Bryologist 82: 469. f. 3-5. 1979.
Type: U.S.A. West Virginia: Pocahontas Co., 16 km W of Mill Point, *Anderson 21897*. Holotype: DUKE; isotypes: MICH, TENN, WVA.

T. ampliretis Crundwell & D. G. Long in Crundwell, During & D. G. Long, J. Bryol. 10: 104. f. 1. 1978.
Type: Spain. Canary Islands: Tenerife, 1.5 km E of Puerto de la Cruz, 50 m, *Long 5807*. Holotype: E; isotype: GL.

**T. angustifolia* (Herzog) Herzog, Biblioth. Bot. 87: 48. 1916.
*illegitimate, later homonym (Article 64.1).
Basionym: *Calyptopogon angustifolius* Herzog, 1910.
Earlier name: *Tortula angustifolia* W. J. Hooker & Greville, 1824.
Correct name: *Tortula herzogii* Zander, 1979.

T. arenae (Bescherelle) Brotherus, 1902.

T. arenae subsp. *petriei* (Brotherus ex Beckett) Lightowlers, J. Bryol. 13: 371. 1985.
Basionym: *Tortula petriei* Brotherus ex Beckett, 1896 [1897].

T. aurea E. B. Bartram, Bull. Torrey Bot. Club 51: 339. pl. 6: 1-11. 1924.
Other use: *Barbula aurea* (E. B. Bartram) Zander in Zander & Steere, 1978, *Pseudocrossidium aureum* (E. B. Bartram) Zander, 1979.

T. australasiae W. J. Hooker & Greville, Edinburgh J. Sci. 1: 301. pl. 12. 1824.
Other use: *Didymodon australasiae* (W. J. Hooker & Greville) Zander, 1978, *Trichostomopsis australasiae* (W. J. Hooker & Greville) H. Robinson, 1970.

T. austroafricana W. Kramer, J. Hattori Bot. Lab. 65: 92. 1988.
Type: Lesotho. Above Lake Letsie, 7900 feet, *Magill 4683*. Holotype: PRE; isotype: MO.

T. bifrons De Notaris, Mem. Reale Accad. Sci. Torino 40: 305. 1838.
Other use: *Aloina bifrons* (De Notaris) Delgadillo M., 1973.

Tortula, continued.

T. brevis H. Whitehouse & Newton, J. Bryol. 15: 83. f. 1-4, 7: b-d. 1988.
Type: United Kingdom. Essex, north bank of Bob's Alley, stream, Matching, *Preston et al.*, 1978. Holotype: CGE. Other indicated distribution: Australia (Victoria), Ireland, U.S.A. (California).

T. cabulica J. Fröhlich, Mitt. Thüring. Bot. Ges. 1(2-3): 61. 1955.
Note: not in Index Muscorum.

**T. calcicola* Grebe, Hedwigia 49: 69. 1910 [1909].
*illegitimate, later homonym (Article 64.1).
Earlier name: *Tortula calcicola* (Hampe) Mitten, 1882.
Correct name: *Tortula calcicolens* W. Kramer, 1980.

T. calcicolens W. Kramer, Bryoph. Biblioth. 21: 90. 1980.
Replaced name: *Tortula calcicola* Grebe, 1910 [1909].
Blocking name: *Tortula calcicola* (Hampe) Mitten, 1882.

T. caninervis (Mitten) Brotherus, 1902.

T. caninervis var. *abranchesii* (Luisier) W. Kramer, Bryoph. Biblioth. 21: 108. 1980.
Basionym: *Tortula abranchesii* Luisier, 1916.

T. caninervis var. *gypsophila* (Amann ex G. Roth) W. Kramer, Bryoph. Biblioth. 21: 106. 1980.
Basionym: *Tortula ruralis* var. *gypsophila* Amann ex G. Roth, 1916 [1915].

T. caninervis subsp. *spuria* (Amann) W. Kramer, Bryoph. Biblioth. 21: 106. 1980.
Basionym: *Tortula spuria* Amann, 1916.

T. chisosa Magill, Delgadillo M. & Stark, Ann. Missouri Bot. Gard. 70: 200. f. 1-9. 1983.
Type: U.S.A. Texas: Big Bend National Park, Chisos Mts., below Lost Mine Trail, W side Lost Mine Peak, ca. 1600 m, *Magill 1341*. Holotype: MO.

T. conferta E. B. Bartram, Bryologist 60: 140. 1957.
Other use: *Tortula princeps* var. *conferta* (E. B. Bartram) Lightowlers, 1985.

**T. crassinervioides* Brotherus in H. P. Ramsay, Taxon 29: 468. 1980.
*invalid, no Latin description (Article 36.1).

T. cucullifolia J. Fröhlich, Mitt. Thüring. Bot. Ges. 1(2-3): 62. 1955.
Note: not in Index Muscorum.

T. cylindrotheca Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 30. 1859.
Other use: *Oxystegus cylindrothecus* (Mitten) Gangulee, 1966 [1967].

T. echinata Schiffner, Oesterr. Bot. Z. 65: 4. f. 1-6. 1915.
Other use: *Syntrichia echinata* (Schiffner) Herrnstadt & Ben-Sasson in Herrnstadt, Ben-Sasson & Crosby, 1982, *Tortula princeps* subsp. *echinata* (Schiffner) W. Kramer, 1980.

T. eckeliae Zander, Bryologist 88: 354. f. 7-12. 1985 [1986].
Type: Mexico. Puebla: Valle de Tehuacan, 3 km NE of Yahualtepec, 2200 m, *Eckel 8398a*. Holotype: BUF; isotype: TENN. Paratypes cited.

T. ferganensis Lazarenko, Ukrajins'k. Bot. Zhurn. 4: 64. f. 1-3. 1928.
Other use: *Tortula handelii* var. *ferganensis* (Lazarenko) W. Kramer, 1978.

Tortula, continued.

T. ferruginea E. B. Bartram, Rev. Bryol. Lichénol. 33: 325. 1964-65 [1965].
Type: Argentina. Tucuman: Tafi, Cumbres Calchafines, 4200 m, *Lillo 300*. Holotype: herb. Bartram.

T. gracilis Schleicher ex W. J. Hooker & Greville, Edinburgh J. Sci. 1: 300. 1824.
Replaced name: *Barbula gracilis* Schwägrichen, 1811.
Blocking name: *Barbula gracilis* Schumacher, 1803.
Other use: *Didymodon rigidulus* var. *gracilis* (Schleicher ex W. J. Hooker & Greville) Zander, 1981.
Note: new name, based on adoption of earlier epithet (Article 72.Note 1).

T. graeffii (Warnstorf) Warnstorf, 1912, "*graefii*."

T. graeffii var. *angustifolia* Warnstorf, Hedwigia 52: 77. 1912.
Other use: *Tortula subulata* fo. *angustifolia* (Warnstorf) Savicz-Ljubitskaya, 1969 [1970].

T. handelii Schiffner, Ann. K.K. Naturhist. Hofmus. 27: 485. f. 34-39. 1913.
Other use: *Syntrichia handelii* (Schiffner) Agnew & Vondrácek, 1975, *Tortula intermedia* subsp. *handelii* (Schiffner) Wijk & Margadant, 1965.

T. handelii var. *ferganensis* (Lazarenko) W. Kramer, Bryologist 81: 385. 1978.
Basionym: *Tortula ferganensis* Lazarenko, 1928.

T. herzogii Zander, Bryologist 82: 631. 1979.
Replaced name: *Tortula angustifolia* (Herzog) Herzog, 1916.
Blocking name: *Tortula angustifolia* W. J. Hooker & Greville, 1824.
Note: invalid, basionym not cited (Article 33.2), in Bryologist 81: 577. 1978 [1979].

T. insulana De Notaris, Mem. Reale Accad. Sci. Torino 40: 320. 1838.
Other use: *Didymodon insulanus* (De Notaris) M. O. Hill, 1981 [1982].

T. intermedia (Bridel) De Notaris, 1838.

T. intermedia subsp. *handelii* (Schiffner) Wijk & Margadant, Taxon 14: 198. 1965.
Basionym: *Tortula handelii* Schiffner, 1913.

T. khartoumensis Pettet, Trans. Brit. Bryol. Soc. 5: 322. f. 4-6. 1967.
Type: Sudan. Grounds of Science Faculty, University, Khartoum, *Pettet 3153*. Holotype: BM.
Other use: *Hyophila khartoumensis* (Pettet) A. J. E. Smith & H. Whitehouse, 1974.

T. khasiana Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 29. 1859.
Other use: *Oxystegus khasianus* (Mitten) Gangulee, 1964.

T. kingii H. Robinson, Bryologist 70: 24. f. 22-25. 1967.
Type: Colombia. Cundinamarca: Eastern Cordillera, Calera, Hacienda La Sibera, Paramo de Palacio, 3520 m, *King, Jaramillo-Mejia & Guevara C-990*. Holotype: US; isotype: COL.

T. laevigata Mitten, J. Linn. Soc., Bot. 12: 160. 1869.
Other use: *Didymodon laevigatus* (Mitten) Zander, 1978.

Tortula, continued.

T. lazarenkoi Savicz-Ljubitskaya, Novosti Sist. Niz. Rast. 1965: 251. 1965.
Replaced name: *Tortula scabrinervis* Lazarenko, 1938.
Blocking name: *Tortula scabrinervis* (C. Müller) Montagne in C. Gay, 1850.

T. lemniscata Zander, Willdenowia 16: 253. f. 1-7. 1986.
Type: Peru. Ancash: Huaraz, rocks at Cerro Yanarrajo near the Lagunas Llanganuc, 4800 m, *Schultze-Motel P-62*. Holotype: BUF; isotypes: B, DUKE, H, NY, U, herb. Menzel. Paratypes cited.

T. leucostega (C. Müller) Brotherus, 1902.

T. leucostega var. *trachyneura* (Dixon) W. Kramer, J. Hattori Bot. Lab. 65: 107. 1988.
Basionym: *Tortula trachyneura* Dixon, 1920.

T. longimucronata Li Xing-jiang, Acta Bot. Yunnan. 3: 107. f. 4. 1981.
Type: China. Xizang: Lhari Xian, 4100 m, *Tao 5312a*. Holotype: KUN.

T. magellanica Montagne in C. Gay, Fl. Chil. 7: 145. 1850.
Other use: *Tortula princeps* var. *magellanica* (Montagne in C. Gay) Lightowlers, 1985.

T. mongolica (Boros) Ochyra, Fragm. Florist. Geobot. 26: 73. 1980.
Basionym: *Syntrichia mongolica* Boros, 1970.

**T. muelleri* J. D. Hooker & Wilson, 1847.
*illegitimate, type of earlier name included (Article 63.1).

T. muelleri var. *parnassica* Schiffner, Verh. Zool.-Bot. Ges. Wien 69: 336. 1920 [1919].
Other use: *Tortula princeps* subsp. *parnassica* (Schiffner) W. Kramer, 1980.

T. muralis Hedwig, 1801.

T. muralis var. *baetica* C. Casas & Oliva, Acta Bot. Malacitana 7: 104. f. 2. 1982.
Type: Spain. Sevilla: Moron de la Frontera, cantera de yeso "Huerto de Luis," *Oliva* (?) *s.n.* Herbarium not specified by authors.

T. nigra Zander, Willdenowia 16: 255. f. 8-15. 1986.
Type: Peru. Huanuco: Huanuco Viejo, 3350 m, *Frahm et al. P-53*. Holotype: BUF; isotypes: B, CURK, U, herb. Menzel.

T. norvegica (Weber) Lindberg, 1864.

T. norvegica var. *calva* (Amann) W. Kramer, Bryoph. Biblioth. 21: 132. 1980.
Basionym: *Syntrichia aciphylla* var. *calva* Amann, 1920.

T. oleaginosa Stone, J. Bryol. 10: 117. f. 1-3: a-t. pl. 1. 1978.
Type: Australia. Victoria: Murray Highway, near Boundary Bend, 63 m, *Stone 1552*. Holotype: MEL; isotypes: MELU, herb. Stone. Other indicated distribution: Australia (New South Wales, Western Australia).
Other use: *Stonea oleaginosa* (Stone) Zander, 1989.

**T. perlimbata* Geheeb ex Herzog, Biblioth. Bot. 73: 56. pl. 3. 1910.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Tortula perlimbata* Geheeb ex Cardot in Luisier, 1909.
Other use: *Tortula solmsii* fo. *perlimbata* Düll, 1980.

Tortula, continued.

T. petriei Brotherus ex Beckett, Trans. & Proc. New Zealand Inst. 29: 441. pl. 25. 1896 [1897].

Other use: *Tortula arenae* subsp. *petriei* (Brotherus ex Beckett) Lightowlers, 1985.

T. pierrottii Bizot, Acta Bot. Acad. Sci. Hung. 18: 21. f. 7: 1-8. 1973, "*pierrotti*."

Type: Tanzania. Mt. Mbeya, Mbeya (Tanzania sud), 1850 m, *Balazs 99*. Holotype: DI; isotype: EGR.

T. planifolia Li Xing-jiang, Acta Bot. Yunnan. 3: 109. f. 5. 1981.

Type: China. Xizang: Lhunze Xian, Huaiba, 3500 m, *Zang 1042a*. Holotype: KUN.

T. porphyreoneura (C. Müller) C. C. Townsend, J. Bryol. 10: 576. 1979.

Basionym: *Barbula porphyreoneura* C. Müller, 1872.

T. princeps De Notaris, 1838.

T. princeps var. *conferta* (E. B. Bartram) Lightowlers, Brit. Antarct. Surv. Bull. 67: 61. 1985.

Basionym: *Tortula conferta* E. B. Bartram, 1957.

T. princeps subsp. *echinata* (Schiffner) W. Kramer, Bryoph. Biblioth. 21: 86. 1980.

Basionym: *Tortula echinata* Schiffner, 1915.

T. princeps var. *magellanica* (Montagne in C. Gay) Lightowlers, Brit. Antarct. Surv. Bull. 67: 61. 1985.

Basionym: *Tortula magellanica* Montagne in C. Gay, 1850.

T. princeps subsp. *parnassica* (Schiffner) W. Kramer, Bryoph. Biblioth. 21: 87. 1980.

Basionym: *Tortula muelleri* var. *parnassica* Schiffner, 1920 [1919].

T. propagulata Lazarenko, Bot. Zhurn. (Kiev) 3: 61. 1946.

Note: not in Index Muscorum.

T. pseudodesertorum J. Fröhlich, Ann. Naturhist. Mus. Wien 67: 155. 1964.

Type: Afghanistan. Mazar-i Sharif, in faucibus fluvii Balkh supra Aq Kupruk, *Rechinger 19675*. Holotype: W.

T. pseudohandelii J. Fröhlich, Ann. Naturhist. Mus. Wien 67: 155. 1964.

Type: Afghanistan. Mazar-i Sharif, in faucibus fluvii Balkh supra Aq Kupruk, *Rechinger 19673*. Holotype: W. Paratypes cited.

T. quitoensis Taylor, London J. Bot. 6: 332. 1847.

Other use: *Sagenotortula quitoensis* (Taylor) Zander, 1989.

T. reflexa Bridel, Muscol. Recent. Suppl. 1: 255. 1806.

Other use: *Didymodon fallax* var. *reflexus* (Bridel) Zander, 1980.

**T. reflexa* Li Xing-jiang, Acta Bot. Yunnan. 3: 109. f. 6. 1981.

*illegitimate, later homonym (Article 64.1).

Earlier name: *Tortula reflexa* Bridel, 1806.

Type: China. Xizang: Denggen Xian, 3800 m, *Zang 5340a*. Holotype: KUN.

T. rhizophylla (Sakurai) Iwatsuki & K. Saito, Misc. Bryol. Lichenol. 6: 59. 1972.

Basionym: *Physcomitrium rhizophyllum* Sakurai, 1938.

Tortula, continued.

T. rubra Mitten in J. D. Hooker, 1867.

**T. rubra* var. *subantarctica* (Sainsbury) Lightowlers, J. Bryol. 13: 373. 1985.
*invalid, basionym not cited (Article 33.2).

T. ruraliformis (Bescherelle) Ingham, 1903.

T. ruraliformis var. *subpapillosissima* (Bizot & Pierrot in Bizot) W. Kramer, Bryoph. Biblioth. 21: 120. 1980.
Basionym: *Tortula ruralis* var. *subpapillosissma* Bizot & Pierrot in Bizot, 1973.

T. ruralis (Hedwig) P. G. Gärtner, B. Meyer & Scherbius, 1802.

T. ruralis var. *gypsophila* Amann ex G. Roth, Hedwigia 57: 135. pl. 4: f. 7. 1916 [1915].
Other use: *Tortula caninervis* var. *gypsophila* (Amann ex G. Roth) W. Kramer, 1980.

T. ruralis subsp. *hirsuta* (Venturi) W. Kramer, Bryoph. Biblioth. 21: 126. 1980.
Basionym: *Barbula ruralis* var. *hirsuta* Venturi, 1890.

T. ruralis fo. *pseudoruraliformis* Tosco, Webbia 28: 286. 1973.
Type: Italy. Gran Paradiso, Parco Nazionale, Valli di Cogne, all'imbocco della Valnontey, *Tosco*, 1954. Holotype: herb. Tosco.

T. ruralis fo. *rhizinifera* Tosco, Webbia 28: 286. 1973.
Type: Italy. Gran Paradiso, Parco Nazionale, Val di Cogne, Cogne, dirupi boscosi di Sylvenoire, *Tosco*, 1954. Holotype: herb. Tosco.

T. ruralis var. *submamillosa* W. Kramer, Bryoph. Biblioth. 21: 127. 1980.
Type: Turkey. Vil. Yozgat, 90 km E of Yozgat, W of Olugozu, 1240 m, *Uotila 15603*. Holotype: H; isotype: herb. Kramer.
Original placement: *T. r.* subsp. *hirsuta*.

T. ruralis var. *subpapillosissma* Bizot & Pierrot in Bizot, Acta Bot. Acad. Sci. Hung. 18: 11. f. 3: 1-2. 1973.
Type: Libya. Ruines de Leptis-Magna, *Balazs 123*. Holotype: DI; isotype: EGR.
Other use: *Tortula ruraliformis* var. *subpapillosissima* (Bizot & Pierrot in Bizot) W. Kramer, 1980.

T. ruralis var. *substereidosa* W. Kramer, Bryoph. Biblioth. 21: 125. 1980.
Type: Iran. Mazandaran: Demavend, E-Flanke, 3450(-3700) m, *Frey 1-1645*. Holotype: TUB; isotypes: herb. Frey, herb. Kramer.
Original placement: *T. r.* subsp. *ruralis*.

T. sabinae C. C. Townsend, Lindbergia 10: 176. f. 1-7. 1984 [1985].
Type: Sudan. Jebel Marra, Taudi, *Miehe 1135A*. Holotype: BM; isotype: herb. Townsend.

**T. scabrinervis* Lazarenko, Zhurn. Inst. Bot. Vseukrajins'k. Akad. Nauk 26-27: 201. f. 4. 1938.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Tortula scabrinervis* (C. Müller) Montagne in C. Gay, 1850.
Correct name: *Tortula lazarenkoi* Savicz-Ljubitskaya, 1965.

Tortula, continued.

T. scotteri Zander & Steere, Bryologist 81: 463. f. 1-14. 1978.
Type: Canada. Northwest Territories: Nahanni Natl. Park, base of Beehive Mountain, 63°31'30" N, 125°23' W, *Scotter 21114*. Holotype: NY; isotype: BUF.

T. sinuata E. B. Bartram, Rev. Bryol. Lichénol. 33: 325. 1964-65 [1965].
Type: Argentina. Tucuman: Tafi del Valle, 2000 m, *Lamb 12668*. Holotype: herb. Bartram. Paratype cited.

T. solmsii (W. P. Schimper) Limpricht, 1890 [1888].

T. solmsii fo. *perlimbata* Düll, Cryptog. Bryol. Lichénol. 1: 179. 1980.
Replaced name: *Tortula perlimbata* Geheeb ex Herzog, 1910.
Blocking name: *Tortula perlimbata* Geheeb ex Cardot in Luisier, 1909.
Note: new name, based on adoption of earlier epithet (Article 72.Note 1).

T. spuria Amann, Bull. Murith., Soc. Valais. Sci. Nat. 39: 351. 1916.
Other use: *Tortula caninervis* subsp. *spuria* (Amann) W. Kramer, 1980.

T. stanfordensis Steere, Bryologist 54: 119. f. 1-9. 1951.
Other use: *Hyophila stanfordensis* (Steere) A. J. E. Smith & H. Whitehouse, 1974.

T. stenophylla Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 28. 1859.
Other use: *Oxystegus stenophyllus* (Mitten) Gangulee, 1966 [1967].

T. subcaroliniana Bizot, Svensk Bot. Tidskr. 63: 446. 1969.
Type: Cape Verde Islands. Santo Antao: Cova, 1200 m, *Byström*, 1958. Herbarium not specified by author.

T. subobliqua R. S. Williams, Field Mus. Nat. Hist., Bot. Ser. 4(5): 128. f. 4. 1927.
Other use: *Chenia subobliqua* (R. S. Williams) Zander, 1989.

T. subtranscaspica J. Fröhlich, Mitt. Thüring. Bot. Ges. 1(2-3): 63. 1955.
Note: not in Index Muscorum.

T. subulata Hedwig, 1801.

T. subulata fo. *angustifolia* (Warnstorf) Savicz-Ljubitskaya, Novosti Sist. Niz. Rast. 6: 248. 1969 [1970].
Basionym: *Tortula graeffii* var. *angustifolia* Warnstorf, 1912.

**T. subuluta* Hedwig ex Wijk, Margadant & Florschütz, Regnum Veg. 65: 102 (Ind. Musc. 5: 102). 1969.
*invalid, orthographic variant (Article 75.1).
Correct name: *Tortula subulata* Hedwig, 1801.

T. toutonii Bizot, Acta Bot. Acad. Sci. Hung. 18: 26. 1973.
Type: Ethiopia. Addis Abeba, Debre Zeit, 1800-2600 m, *Balazs 111*. Holotype: DI; isotype: EGR.

T. trachyneura Dixon, Trans. Roy. Soc. South Africa 8: 195. f. 7. 1920.
Other use: *Tortula leucostega* var. *trachyneura* (Dixon) W. Kramer, 1988.

T. vectensis E. F. Warburg & Crundwell, Trans. Brit. Bryol. Soc. 4: 763. f. 1. 1965.
Type: United Kingdom. Isle of Wight, Near Brook, vice county 10, *Warburg et al. s.n.* Holotype: OXF.

Tortula, continued.
T. velenovskyi Schiffner, Nova Acta Acad. Caes. Leop.-Carol. German. Nat. Cur. 58(7): 480. pl. 17. 1893.
Other use: *Hilpertia velenovskyi* (Schiffner) Zander, 1989.
T. virescens (De Notaris) De Notaris, 1862.
**T. virescens* subsp. *bizotiana* W. Kramer, J. Hattori Bot. Lab. 65: 123. 1988.
*invalid, replaced name invalid (Article 33.2).
**T. virescens* subsp. *bizotii* (Lazarenko) W. Kramer, Bryoph. Biblioth. 21: 102. 1980.
*invalid, basionym invalid (Article 33.2).
T. virescens var. *iranica* W. Kramer, Bryoph. Biblioth. 21: 101. 1980.
Type: Iran. Fars: 72 km nach Shiraz in Richturg Kazerun, 2080-2150 m, *Frey 1-1601A*. Holotype: TUB; isotypes: herb. Frey, herb. Kramer.
Original placement: *T. v.* subsp. *virescens*.
T. websteri H. Robinson, Bryologist 68: 316. f. 8-11. 1965.
Type: Pakistan. Baltistan: Karakorum Range, Hushe Valley, Atosar Valley, 12,500 feet, *Webster & Nasir 6158b*. Holotype: US; isotype: PUL.

Touwia Ochyra, J. Bryol. 14: 103. f. 1-2. 1986.
Type: *T. laticostata* Ochyra, holotype.
Original placement: Neckeraceae.
T. laticostata Ochyra, J. Bryol. 14: 103. f. 1-2. 1986.
Type: Australia. Queensland: Mt. Bellenden Ker, Great Dividing Range, 300 m, *Balgooy 1531*. Holotype: L; isotypes: KRAM, MICH, NY.

Trachycarpidium Brotherus in Engler & Prantl, 1901.
T. brisbanicum (C. Müller) Stone, Muelleria 3: 122. 1975.
Basionym: *Acaulon brisbanicum* C. Müller, 1872.
T. novae-valesiae Brotherus ex G. Roth, Hedwigia 53: 94. pl. 2: f. 8. 1913.
Other use: *Bryobartramia novae-valesiae* (Brotherus ex G. Roth) Stone & G. A. M. Scott, 1973 [1974].

Trachycystis Lindberg, 1868.
T. arcuata Lazarenko, Bot. Zhurn. (Kiev) 2(1): 63. 1941.
Replaced name: *Mnium arcuatum* Brotherus, 1899.
Blocking name: *Mnium arcuatum* Dickson & Withering, 1801.
Note: new name, based on adoption of earlier epithet (Article 72.Note 1); not in Index Muscorum.
T. immarginata (Brotherus) Lazarenko, Bot. Zhurn. (Kiev) 2(1): 63. 1941.
Basionym: *Mnium immarginatum* Brotherus, 1892.
Note: not in Index Muscorum.
T. ussuriensis (Maack & Regel in Regel) T. Koponen, Ann. Bot. Fenn. 14: 206. 1977.
Basionym: *Mnium ussuriense* Maack & Regel in Regel, 1861.

Trachyloma Bridel, 1827.

T. arborescens Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 91. 1859.

Other use: *Hypnodendron subspininervium* subsp. *arborescens* (Mitten) Touw, 1971.

T. concavifolium N. G. Miller & Manuel, J. Hattori Bot. Lab. 51: 315. f. 18. 1982.

Type: Papua New Guinea. Eastern Highlands, Mount Wilhelm, Imbuka Ridge just behind and above Pindaunde Field Station, 3505 m, *Weber & McVean*, 1968. Holotype: COLO.

T. dimorpha (Dixon) Magill, J. Hattori Bot. Lab. 48: 67. 1980.

Basionym: *Symphysodontella dimorpha* Dixon, 1934.

T. indicum Mitten, 1859.

T. indicum var. *epilosum* N. G. Miller & Manuel, J. Hattori Bot. Lab. 51: 311. f. 1: e-f, 3: d-g. 1982.

Type: Papua New Guinea. Western Highlands, Mt. Kegum (N ridge of Mt. Hagen), ca. 5°42' S, 144°6' E, 3150 m, *Veldkamp & Vinas 7636*. Holotype: L.

T. indicum var. *novae-guineae* (C. Müller) N. G. Miller & Manuel, J. Hattori Bot. Lab. 51: 312. 1982.

Basionym: *Trachyloma novae-guineae* C. Müller, 1902.

T. indicum var. *teretirameum* N. G. Miller & Manuel, J. Hattori Bot. Lab. 51: 313. f. 17. 1982.

Type: Papua New Guinea. Southern Highlands: Mendi, ENE Mt. Giluwe, 3660 m, *Stevens & Foreman s.n.* (LAE 52260). Holotype: L.

T. novae-guineae C. Müller, Hedwigia 41: 130. 1902.

Other use: *Trachyloma indicum* var. *novae-guineae* (C. Müller) N. G. Miller & Manuel, 1982.

T. stipitatum Mitten, J. Proc. Linn. Soc., Bot. 7: 156. 1864.

Other use: *Porothamnium stipitatum* (Mitten) Touw ex Sloover, 1983.

Trachyodontium Steere, Bryologist 89: 17. f. 1-15. 1986.

Type: *T. zanderi* Steere, holotype.

Original placement: Pottiaceae.

T. zanderi Steere, Bryologist 89: 17. f. 1-15. 1986.

Type: Ecuador. Pichincha: Cordillera Occidental, S slope of Volcan Pichincha, valley of Rio El Cinto, 15 km below Lloa, *Steere & Balslev 26991*. Holotype: NY; isotypes: AAU, BUF, FLAS, MICH, QCA. Paratypes cited.

Trachyphyllum Gepp in Hiern, 1901.

T. subgen. *Carinatum* Buck, Brittonia 31: 389. 1979.

Type: *T. carinatum* Dixon, holotype.

T. andoi Tixier, Rev. Bryol. Lichénol. 38: 157. f. 6. 1971-72 [1972].

Type: Thailand. Chiang Mai, Doi Chiang Dao, 800 m, *Tixier 1063*. Herbarium not specified by author. Paratype cited.

Trachyphyllum, continued.
T. elongatum Dixon & Potier de la Varde in Potier de la Varde, Rev. Bryol. 52: 40. 1925.
Other use: *Schwetschkeopsis elongata* (Dixon & Potier de la Varde in Potier de la Varde) Buck & H. Crum, 1978.
T. fragilifolium Dixon, Notes Roy. Bot. Gard. Edinburgh 19: 297. 1938.
Other use: *Bryosedgwickia fragilifolia* (Dixon) Buck, 1979, *Platygyriella fragilifolia* (Dixon) Buck, 1984.
T. touwianum Buck, Brittonia 31: 392. f. 25-27. 1979.
Type: Burma. Pegu: Tonkyeghat, *Kurz 2940*. Holotype: BM; isotypes: FH, NY.

Trachypodopsis Fleischer, 1906.
T. lancifolia Wu Pan-cheng, Acta Phytotax. Sin. 20: 353. f. 7-11. 1982, "*lancifolium*."
Type: China. Xizang: Medog, Didong, 1300 m, *Group of Vegetation 57*. Holotype: PE.

Trachypus Reinwardt & Hornschuch, 1829.
T. bicolor Reinwardt & Hornschuch, 1829.
**T. bicolor* var. *brevifolius* (Fleischer) Zanten, J. Hattori Bot. Lab. 60: 267. 1986, "*bervifolia*."
*illegitimate, later homonym (Article 64.1).
Basionym: *Trachypus cuspidatus* var. *brevifolius* Fleischer, 1903.
Earlier name: *Trachypus bicolor* var. *brevifolius* Brotherus, 1929.
T. bicolor var. *scindifolius* (Sakurai) Wijk & Margadant, Taxon 14: 198. 1965.
Basionym: *Trachypus scindifolius* Sakurai, 1941.
T. cuspidatus Fleischer, 1908.
T. cuspidatus var. *brevifolius* Fleischer, Musci Buitenzorg 3: 743. 1903, "*brevifolia*."
Other use: *Trachypus bicolor* var. *brevifolius* (Fleischer) Zanten, 1986.
T. scindifolius Sakurai, Bot. Mag. (Tokyo) 55: 208. f. 7. 1941.
Other use: *Trachypus bicolor* var. *scindifolius* (Sakurai) Wijk & Margadant, 1965.

Trachythecium Fleischer, 1923.
T. hebridense (Dixon) Schultze-Motel, Willdenowia 7: 75. 1973.
Basionym: *Ectropothecium hebridense* Dixon, 1948.

Trachyxiphium Buck, Brittonia 39: 219. 1987.
Type: *Hypnum guadelupense* Bridel, *T. guadelupense* (Bridel) Buck, holotype.
Original placement: Callicostaceae.
T. aduncum (Mitten) Buck, Brittonia 39: 220. 1987.
Basionym: *Hookeria adunca* Mitten, 1869.
T. drepanophyllum (Geheeb & Hampe) Schafer-Verwimp, J. Hattori Bot. Lab. 67: 318. 1989.
Basionym: *Hookeria drepanophylla* Geheeb & Hampe, 1881.

Trachyxiphium, continued.
T. guadalupense (Sprengel in Bridel) Buck, Brittonia 39: 220. 1987.
Basionym: *Hypnum guadalupense* Sprengel in Bridel, 1812.
T. heteroicum (Cardot) Buck, Brittonia 39: 220. 1987.
Basionym: *Hookeriopsis heteroica* Cardot, 1910.
T. hypnaceum (C. Müller) Buck, Brittonia 39: 220. 1987.
Basionym: *Hookeria hypnacea* C. Müller, 1856.
T. pernutans (C. Müller) Buck, Brittonia 39: 220. 1987.
Basionym: *Hookeria pernutans* C. Müller, 1879.
T. subfalcatum (Hampe) Buck, Brittonia 39: 220. 1987.
Basionym: *Hookeria subfalcata* Hampe, 1866.
T. tenue (Mitten) Buck, Brittonia 39: 220. 1987.
Basionym: *Hookeria tenuis* Mitten, 1869.
T. vagum (Mitten) Buck, Brittonia 39: 221. 1987.
Basionym: *Hookeria vaga* Mitten, 1869.
T. variabile (Hornschuch ex Mitten) Buck, Brittonia 39: 221. 1987.
Basionym: *Hookeria variabilis* Hornschuch ex Mitten, 1869.

Trematodon Michaux, 1803.
T. amoenus (C. Müller) Stone & G. A. M. Scott in G. A. M. Scott & Stone, Mosses S. Australia 454. 1976.
Basionym: *Bruchia amoena* C. Müller, 1888.
T. boasii Schofield, Bryologist 69: 204. f. 1-14. 1966.
Type: Canada. British Columbia: Vancouver Island, Albert Edward Trail, Forbidden Plateau, *Boas 1593*. Holotype: UBC.
T. brevicarpus Akiyama, Acta Phytotax. Geobot. 35: 24. f. 2-3. 1984.
Type: Japan [Honshu]. Ishikawa: Minamiryugabanba, Mt. Hakusan, Shirane Village, 2090 m, *Akiyama 3302*. Holotype: KYO.
T. geniculatus Matteri, Revista Mus. Argent. Ci. Nat. "Bernardino Rivadavia," Ci. Nat., Bot. 5: 262. f. 1. 1980.
Type: Argentina. Tierra del Fuego: 14 km NE Ushuaia, valle de Tierra Mayor, *Matteri 2055*. Holotype: BA.
Original placement: subgen. *Pseudomicrodus*.
T. hakusanensis Akiyama, Acta Phytotax. Geobot. 35: 21. f. 1. 1984.
Type: Japan [Honshu]. Ishikawa: Kanko-shindo, Mt. Hakusan, Shirane Village, 1960 m, *Akiyama 3255*. Holotype: KYO. Paratypes cited.
T. kurzii Hampe ex Gangulee, Mosses E. India 2: 222. f. 100. 1971.
Type: Burma, *Kurz 3303*. Holotype: CAL.
Note: invalid, holotype not indicated (Article 37.1), in Bull. Bot. Soc. Bengal 14: 12. 1960 [1963].
T. laetevirens Hakelier & Frahm, Lindbergia 3: 223. f. 1. 1976.
Type: Sweden. Jamtland: Are, Areskutan, *Hakelier & Frahm*, 1975. Holotype: S; isotypes: B, DUIS. Other indicated distribution: Norway.

Trematodon, continued.

T. montanus Belland & Brassard, Lindbergia 9: 1. f. 1-9. 1983.
Type: Canada. Newfoundland: "Big Level" area, between Baker's Brook Pond & Western Brook Pond, ca. 49°41' N, 57°44' W, 700-750 m, *Belland 4489*. Holotype: NFLD.

T. norrisii A. J. Sharp, Phytologia 61: 372. 1986.
Type: Mexico. Nayarit: along road to Puerto Vallarta about 4 miles N of San Juan Caxstle, *Norris & Taranto 13641*. Holotype: TENN; isotype: HSC.

Trichosteleum Mitten, 1868.

T. aquatile Tixier, Bryoph. Biblioth. 18: 42. f. 3. 1979, "*aquatilis*."
Type: Cambodia. Km 26 de la route du Bokor, 860 m, *Tixier 3460*. Holotype: herb. Tixier. The type is cited on page 38.

T. basilanense Brotherus, Philipp. J. Sci. 13: 220. 1918.
Other use: *Rhaphidostichum boschii* subsp. *basilanense* (Brotherus) Seki, 1968.
Original placement: Infragen. *Papillidium*.

T. bolivarense H. Robinson, Acta Bot. Venez. 1: 78. f. 25-28. 1965.
Type: Venezuela. Bolivar: Cerro Venamo, la fila oeste del afluente derecho (oeste), subiendo el Rio Venamo, 1000 m, *Steyermark & Dunsterville 92253*. Holotype: US; isotype: VEN.

T. brongersmae Zanten, Nova Guinea, Bot. 16(16): 340. pl. 31: f. 3. 1964.
Type: Indonesia [New Guinea]. Irian Barat: Mt. Antares, Camp 39a, 1500 m, *Zanten 476*. Holotype: L; isotype: GRO.

T. chaetomitriopsis Dixon, J. Siam Soc., Nat. Hist. Suppl. 10: 23. 1935.
Other use: *Rhaphidostichum chaetomitriopsis* (Dixon) Touw, 1968.

T. cyparissoides (Hornschuch) H. Robinson, Bryologist 70: 42. 1967.
Basionym: *Hypnum cyparissoides* Hornschuch, 1840.

**T. demangei* Tixier, Rev. Bryol. Lichénol. 34: 158. f. 26. 1966.
*invalid, single element not cited as holotype (Article 37.3).
Type: Vietnam. Tam-Dao, 900-1000 m; Bach-Ma au-dessus de Hue, *Demange*, 1925; *Tixier*, 1962. Herbarium not indicated by author.

T. flagelliferum Brotherus, Bih. Kongl. Svenksa Vetensk.-Akad. Handl. 21 Afd. 3(3): 54. 1895.
Other use: *Wijkia flagellifera* (Brotherus) H. Crum, 1971.

T. fruticola Tixier, Gard. Bull. Straits Settlem. 25: 348. f. 2. 1971.
Type: Malaysia [Malay Peninsula]. Fraser's Hill Station, 112 km from Kuala Lumpur, 1400 m, on ridge of the Main Range near the water parting between Pahang and Selangor, *Tixier 4852*. Herbarium not specified by author. Other indicated distribution: Cambodia.

T. fuscescens Norris & T. Koponen, Ann. Bot. Fenn. 22: 386. f. 9. 1985.
Type: Papua New Guinea. West Sepik: Frieda River, Nena area, 8-9 km NW of Frieda Base Camp, Nena River, helipad D 33, 500 m, *Koponen 35973*. Holotype: H; isotypes: HSC, LAE.

Trichosteleum, continued.

T. hebridarum Schultze-Motel, Willdenowia 7: 72. 1973.
Replaced name: *Trichosteleum subtile* Brotherus & Watts, 1915.
Blocking name: *Trichosteleum subtile* Cardot, 1904.

T. heterophyllum Bizot & Onraedt in Onraedt, Bull. Jard. Bot. Natl. Belgique 46: 361. f. 9. 1976.
Type: Madagascar. Normandie-Nord, au S de Diego-Suarez, *Cremers 2735*. Holotype: herb. Onraedt; isotypes: BR, TAN, herb. Bizot.

T. jonesii Bizot ex Pócs, Fol. Hist. Nat. Mus. Matr. 4: 34. 1976-77 [1977].
Type: Tanzania. Mufindi Scarp Forest Reserve, *Jones & Pócs 6322/N*. Holotype: EGR; isotypes: DSM, herb. Bizot, herb. Jones.
Original placement: sect. *Papillidium*.
Note: invalid, holotype not indicated (Article 37.1), in Rev. Bryol. Lichénol 40: 130. pl. 17: C. 1974.

T. lachmanii Bizot, Rev. Bryol. Lichénol. 40: 128. pl. 17: a-b. 1974.
Type: Ivory Coast. Pres d'Abie, *Assel 1126*. Holotype: herb. Bizot.

T. lamprophyllum (Mitten) Buck, Brittonia 35: 310. 1983.
Basionym: *Acroporium lamprophyllum* Mitten, 1869.

T. leptocarpon (Schwägrichen) Fleischer, 1904.

T. leptocarpon var. *altepapillosum* Dixon, J. Linn. Soc., Bot. 50: 127. 1935.
Other use: *Warburgiella leptocarpa* var. *altepapillosa* (Dixon) Touw, 1978.

T. louisiadum Schultze-Motel, Willdenowia 7: 72. 1973.
Replaced name: *Trichosteleum piliferum* E. B. Bartram, 1960.
Blocking name: *Trichosteleum piliferum* Brotherus & Paris, 1911.

T. mastopomatoides Churchill & Sastré-de Jesús, Bryologist 90: 248. f. 1-4. 1987 [1988].
Type: Colombia. Antioquia: Municipio de Sonson, ca. 32.5 km NW de Sonson hacia La Union, 05°50' N, 75°15' W, *Churchill & Sastre 13106*. Holotype: HUA; isotypes: COL, FL, MICH, NY.

T. montanum Tixier, Rev. Bryol. Lichénol. 37: 756. f. 15. 1970 [1971].
Type: Vietnam. Tuyen Duc, Benom da Treu, 1800 m, *Tixier*, 1958. Herbarium not specified by author.

T. nematosum Brotherus & Paris, Oefers. Förh. Finska Vetensk.-Soc. 53A(11): 40. 1911.
Other use: *Hageniella nematosa* (Brotherus & Paris) Tixier, 1977.

**T. pallidum* E. B. Bartram, Lloydia 5: 285. f. 53. 1942.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Trichosteleum pallidum* Dixon, 1941.
Other use: *Warburgiella pallida* Zanten, 1964.

T. pendens Norris & T. Koponen, Ann. Bot. Fenn. 22: 388. f. 10. 1985.
Type: Papua New Guinea. West Sepik: Frieda River, Table Mtn. 12 km NWW [sic] of Frieda Base Camp, helipad M 48, 1100 m, *Koponen 35847*. Holotype: H; isotypes: HSC, LAE. Paratype cited.

Trichosteleum, continued.

T. perlongifolium J. Fröhlich, Rev. Bryol. Lichénol. 31: 92. 1962 [1963].
Type: Malaysia [Borneo]. Sabah: Mt. Kinabalu, Bukit Ampuan, 3000-4000 feet, *Meijer*, 1959. Herbarium not specified by author.
Note: cited as *Trichostomum perlongifolium* in Index Muscorum.

**T. piliferum* E. B. Bartram, Blumea 10: 148. 1960.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Trichosteleum piliferum* Brotherus & Paris, 1911.
Correct name: *Trichosteleum louisiadum* Schultze-Motel, 1973.

T. pluripunctatum Renauld & Cardot, Bull. Soc. Roy. Bot. Belgique 29(1): 184. 1890.
Other use: *Taxithelium pluripunctatum* (Renauld & Cardot) Buck, 1983.

T. popokvilense Tixier, Bryoph. Biblioth. 18: 43. f. 4. 1979.
Type: Cambodia. Chutes de Popokvil, 900 m, *Tixier 3375*. Herbarium not specified by author. The type is cited on page 39.

T. punctipapillosum Paris ex Gangulee, Mosses E. India 8: 1913. f. 980. 1980.
Type: India. Andaman and Nicobar: Port Blair, *Man*, 1892 (Bryoth. Levier 483). Holotype: BM.

T. sarapiquense H. Crum & Richards, J. Bryol. 13: 198. f. 3. 1984, "*sarapiquensis*."
Type: Costa Rica. Heredia: Las Horquetas, Puerto Viejo, 100 m, *Richards 6264*. Holotype: MICH; isotype: NMW.

T. stereodontoides Brotherus ex Gangulee, Mosses E. India 8: 1915. f. 981. 1980.
Type: India. Darjeeling, 2000 m, *Long 13*. Holotype: BM.
Note: invalid, no Latin description (Article 36.1), in Brotherus in Bruehl, Rec. Bot. Surv. India 13(1): 128. 1931.

T. sublongisetum Tixier, Bryoph. Biblioth. 18: 44. f. 5. 1979.
Type: Cambodia. Km 26 de la route de Bokor, 700 m, *Tixier 3597*. Holotype: herb. Tixier. The type is cited on page 39.

**T. subtile* Brotherus & Watts, J. & Proc. Roy. Soc. New South Wales 49: 153. 1915.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Trichosteleum subtile* Cardot, 1904.
Correct name: *Trichosteleum hebridarum* Schultze-Motel, 1973.

T. vietnamense Tixier, Rev. Bryol. Lichénol. 37: 757. f. 16. 1970 [1971].
Type: Vietnam. Tuyen Duc, Vallee du Da Pampei, 1300 m, *Tixier*, 1960. Herbarium not specified by author.

T. volutum (Mitten) Mohamed, J. Bryol. 13: 436. 1985.
Basionym: *Chaetomitrium volutum* Mitten, 1859.

Trichostomopsis Cardot, 1909.

T. aaronis (Lorentz) Agnew & C. C. Townsend, Israel J. Bot. 19: 258. 1970.
Basionym: *Trichostomum aaronis* Lorentz, 1868.

T. australasiae (W. J. Hooker & Greville) H. Robinson, Phytologia 20: 187. 1970.
Basionym: *Tortula australasiae* W. J. Hooker & Greville, 1824.

Trichostomopsis, continued.
T. curvipes (C. Müller) H. Robinson, Phytologia 20: 186. 1970.
Basionym: *Barbula curvipes* C. Müller, 1879.
T. haussknechtii (Juratzka & Milde) Agnew & C. C. Townsend, Israel J. Bot. 19: 258. 1970.
Basionym: *Barbula haussknechtii* Juratzka & Milde, 1870.
T. trivialis (C. Müller) H. Robinson, Phytologia 20: 187. 1970.
Basionym: *Barbula trivialis* C. Müller, 1899.
T. umbrosa (C. Müller) H. Robinson, Phytologia 20: 185. 1970.
Basionym: *Barbula umbrosa* C. Müller, 1879.
**T. umbrosa* fo. *propagulifera* Brugués, Acta Phytotax. Barcinon. 21: 15. 1976 [1977].
*invalid, no Latin description (Article 36.1) and single element not indicated as holotype (Article 37.3).
Type: no element cited by author.

Trichostomum Bruch, 1829, conserved name.
T. sect. *Hydrogonium* C. Müller, Linnaea 40: 297. 1876.
Other use: *Barbula* sect. *Hydrogonium* (C. Müller) K. Saito, 1975.
T. aaronis Lorentz, Abh. Königl. Akad. Wiss. Berlin 1867: 29. pl. 5: f. 1-9; 6: f. 10-21. 1868.
Other use: *Trichostomopsis aaronis* (Lorentz) Agnew & C. C. Townsend, 1970.
T. aeneum C. Müller, Syn. Musc. Frond. 2: 628. 1851.
Other use: *Bryoerythrophyllum recurvirostre* var. *aeneum* (C. Müller) Zander, 1976.
T. andinum Sullivant, U.S. Expl. Exped., Musci 5. pl. 2: a. 1859.
Other use: *Erythrophyllopsis andina* (Sullivant) Zander, 1977.
T. bartramii Iwatsuki & B. C. Tan, Misc. Bryol. Lichenol. 7: 152. 1977.
Replaced name: *Trichostomum brevifolium* E. B. Bartram, 1958 [1959].
Blocking name: *Trichostomum brevifolium* Sendtner ex C. Müller, 1849.
**T. borbonicum* Een, Lindbergia 3: 217. 1976 [15 Dec].
*illegitimate, type of earlier name included (Article 63.1).
Replaced name: *Trichostomum glaucoviride* Renauld & Cardot, 1894 [1895].
Blocking name: *Trichostomum glaucoviride* C. Müller, 1882.
Correct name: *Trichostomum cardotii* Bizot, 1976 [10 Nov].
T. brachydontium Bruch in F. A. Mueller, 1829.
T. brachydontium var. *longifolium* (Warnstorf) Wijk & Margadant, Taxon 17: 467. 1968.
Basionym: *Trichostomum littorale* var. *longifolium* Warnstorf, 1899.
**T. brevifolium* E. B. Bartram, Philipp. J. Sci. 87: 277. 1958 [1959].
*illegitimate, later homonym (Article 64.1).
Earlier name: *Trichostomum brevifolium* Sendtner ex C. Müller, 1849.
Correct name: *Trichostomum bartramii* Iwatsuki & B. C. Tan, 1977.
T. burmense E. B. Bartram, Rev. Bryol. Lichénol. 23: 245. 1954.
Other use: *Oxystegus burmensis* (E. B. Bartram) Gangulee, 1972.

Trichostomum, continued.

T. cardotii Bizot, Rev. Bryol. Lichénol. 42: 853. 1976 [10 Nov].
Replaced name: *Trichostomum glaucoviride* Renauld & Cardot, 1894 [1895].
Blocking name: *Trichostomum glaucoviride* C. Müller, 1882.
Note: invalid, replaced name not cited (Article 33.2), in Rev. Bryol. Lichénol. 40: 120. 1974.

T. clavinerve (Cardot & Potier de la Varde) H. O. Whittier in H. O. Whittier & B. Whittier, Bryologist 77: 433. 1974.
Basionym: *Weissia clavinervis* Cardot & Potier de la Varde, 1912.

T. contortum (Kunze in Holler) Sérgio, Portugaliae Acta Biol., Ser. B, Sist. 14: 169. 1985.
Basionym: *Hymenostomum contortum* Kunze in Holler, 1830.

**T. glaucoviride* Renauld & Cardot, Bull. Soc. Roy. Bot. Belgique 33(2): 113. 1894 [1895].
*illegitimate, later homonym (Article 64.1).
Earlier name: *Trichostomum glaucoviride* C. Müller, 1882.
Correct name: *Trichostomum cardotii* Bizot, 1976 [10 Nov].
Other use: *Trichostomum borbonicum* Een, 1976 [15 Dec].

T. lambii E. B. Bartram, Rev. Bryol. Lichénol. 33: 324. 1964-65 [1965].
Type: Argentina. Tucuman: Tafi del Valle, 2000 m, *Lamb 12656*. Holotype: herb. Bartram.

T. littorale Mitten, 1868.

T. littorale var. *longifolium* Warnstorf, Allg. Bot. Z. Syst. 5(Beih. 1): 28. 1899.
Other use: *Trichostomum brachydontium* var. *longifolium* (Warnstorf) Wijk & Margadant, 1968.

T. marginatum H. Robinson, Phytologia 21: 389. f. 1-4. 1971.
Type: Peru. Huanuco: Muna, 7000 feet, *Bryan 507a*. Holotype: NY.

**T. microcarpum* W. P. Schimper ex Bescherelle, Ann. Sci. Nat. Bot., ser. 6, 3: 198. 1876.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Trichostomum microcarpum* Hedwig, 1801.
Other use: *Weissia euteiches* Zander, 1985.

T. molariforme Zander, Bryologist 85: 126. f. 1-8. 1982.
Type: Haiti. Bois Contre near Morne la Selle, *Orcutt 8479*. Holotype: FH.

T. mollissimum (Brotherus ex E. B. Bartram) H. Crum, Bryologist 72: 245. 1969.
Basionym: *Tortella mollissima* Brotherus ex E. B. Bartram, 1947.

T. perinvolutum Tixier, Rev. Bryol. Lichénol. 34: 133. f. 4. 1966.
Type: Vietnam. Hanoi, *Petelot 165*. Herbarium not specified by author.

**T. perlongifolium* J. Fröhlich ex Wijk, Margadant & Florschütz, Regnum Veg. 65: 152 (Ind. Musc. 5: 152). 1969.
*invalid, orthographic variant (Article 75.1).
Correct name: *Trichosteleum perlongifolium* J. Fröhlich, 1962 [1963].

T. philippinense Iwatsuki & B. C. Tan, Kalikasan 8: 195. 1979.
Replaced name: *Trichostomum brevifolium* E. B. Bartram, 1958 [1959].
Blocking name: *Trichostomum brevifolium* Sendtner ex C. Müller, 1849.

Trichostomum, continued.
T. spirale Grout, Moss Fl. N. Amer. 1: 162. pl. 84: b. 1938.
Other use: *Oxystegus spiralis* (Grout) H. Crum & L. E. Anderson, 1989.
T. stenocarpum Wilson in Seemann, Bot. Voy. Herald 344. 1856.
Other use: *Atractylocarpus stenocarpus* (Wilson in Seemann) Zander, 1982, *Campylopodiella stenocarpa* (Wilson in Seemann) P. Müller & Frahm, 1987.
**T. stenocarpum* (Thériot) H. Crum, Bryologist 84: 390. 1981.
*illegitimate, later homonym (Article 64.1).
Basionym: *Weisiopsis stenocarpa* Thériot, 1931.
Earlier name: *Trichostomum stenocarpum* Wilson in Seemann, 1856.
T. sulphureum C. Müller, Syn. Musc. Frond. 2: 626. 1851.
Other use: *Leptodontium viticulosoides* var. *sulphureum* (C. Müller) Zander, 1983.
T. svihlae E. B. Bartram, Rev. Bryol. Lichénol. 23: 245. 1954.
Other use: *Oxystegus svihlae* (E. B. Bartram) Gangulee, 1972.
T. tophaceum Bridel, 1819 [1818].
T. tophaceum var. *humile* W. P. Schimper, Coroll. Bryol. Eur. 29. 1856.
Other use: *Didymodon tophaceus* fo. *humilis* (W. P. Schimper) Margadant, 1972.
T. triumphans De Notaris in W. P. Schimper, Syn. Musc. Eur. 690. 1860.
Other use: *Weissia triumphans* (De Notaris in W. P. Schimper) M. O. Hill, 1981 [1982].
T. tucumanense E. B. Bartram, Rev. Bryol. Lichénol. 33: 324. 1964-65 [1965].
Type: Argentina. Tucuman: Carapunco, Infiernillo, 2800 m, *Lamb 12532*.
Holotype: herb. Bartram.
T. uncinifolium Dixon, Anniv. Vol. Bot. Gard. Calcutta 180. 1942.
Note: not in Index Muscorum.

+**Tricostium** Krasilov, Palaeontographica, Abt. B, Paläophytol. 143: 100. 1973.
Type: *T. papillosum* Krasilov, holotype.
Original placement: not indicated by author.
+*T. papillosum* Krasilov, Palaeontographica, Abt. B, Paläophytol. 143: 100. pl. 48: f. 75-86. 1973.
Type: U.S.S.R. Bureja basin, near the mouth of the Umalta River, (Late Jurassic), *Krasilov 515-30*. Herbarium not specified by author.

Triquetrella C. Müller, 1897.
T. tasmanica (Brotherus) Granzow-de la Cerda, Bryologist 92: 383. 1989.
Basionym: *Anomodon tasmanicus* Brotherus, 1899 [1900].

Trismegistia (C. Müller) C. Müller, 1908.
T. monodii (Potier de la Varde) Ando, Rev. Bryol. Lichénol. 39: 537. 1973 [1974].
Basionym: *Gollania monodii* Potier de la Varde, 1959.

Trismegistia, continued.
T. perundulata Dixon, Ann. Bryol. 9: 69. 1937.
Other use: *Mastopoma perundulatum* (Dixon) Horikawa & Ando in Kira & Umesao, 1964.
T. rigida (Mitten) Brotherus, 1908.
T. rigida var. *spinosodentata* Zanten, Nova Guinea, Bot. 10(16): 327. pl. 29: f. 3. 1964.
Type: Indonesia [New Guinea]. Irian Barat: Orion Mts., Tenmasigin, 1800 m, *Vervoort 308e*. Holotype: L; isotype: GRO.

Tristichella Dixon, 1932.
T. dimorpha Stone, J. Bryol. 14: 691. f. 1-3. 1987.
Type: Australia. Queensland: Mt. Bellenden Ker, 1600 m, *Stone 16926*. Holotype: MEL. Paratypes cited.
T. glabrescens Iwatsuki, Bull. Natl. Sci. Mus., Ser. B, Bot. 3: 17. f. 2-3. 1977.
Type: Japan [Kyushu]. Yakushima Island, in coniferous forest at "Yakusugi Land" above Anbo, 1000 m, *Iwatsuki 10891*. Holotype: NICH. Other indicated distribution: China (Taiwan).

Tristichium C. Müller, 1879.
T. apodum (Herzog) H. Crum, Bryologist 87: 203. 1984.
Basionym: *Tristichium lorentzii* var. *apodum* Herzog, 1914.
T. lorentzii C. Müller, 1879.
T. lorentzii var. *apodum* Herzog, Flora 107: 322. 1914.
Other use: *Tristichium apodum* (Herzog) H. Crum, 1984.

Trochobryum Breidler & G. R. Beck, Verh. K.K. Zool.-Bot. Ges. Wien 34: 106. 1885.
Other use: *Seligeria* sect. *Trochobryum* (Breidler & G. R. Beck) Nyholm, 1986.
T. carniolicum Breidler & G. R. Beck, Verh. Zool.-Bot. Ges. Wien 34: 105. f. 3. 1885.
Other use: *Seligeria carniolica* (Breidler & G. R. Beck) Nyholm, 1969.

Tuerckheimia Brotherus, 1910.
**T. angustifolia* (K. Saito) Zander, Misc. Bryol. Lichenol. 8: 27. 1978.
*invalid, basionym invalid (Article 33.2).
T. calculosa Zander & Eckel, Mem. New York Bot. Gard. 45: 293. f. 1-7. 1987.
Type: Mexico. San Luis Potosi: 80 km W of Ciudad Valles, 52 km E of Rio Verde, along Hwy 70, *Magill s.n.* Holotype: BUF. Paratypes cited.
T. valeriana (E. B. Bartram) Zander, Misc. Bryol. Lichenol. 8: 27. 1978.
Basionym: *Leptodontium valerianum* E. B. Bartram, 1929.

Uleastrum Buck, Candollea 40: 203. 1985.
Replaced name: *Ulea* C. Müller, 1897.
Blocking name: *Ulea* J. Schröter, 1892.

Uleastrum, continued.
U. paraguense (Bescherelle) Buck, Candollea 40: 203. 1985, "*paraguensis*."
Basionym: *Anacalypta paraguensis* Bescherelle, 1877.

Uleobryum Brotherus, 1906.
U. curtisii Stone, J. Bryol. 13: 19. f. 1-2. 1984.
Type: Australia. Queensland: near Monto, N of Cania George National Park, Three Moon Creek, *Stone, Stone & Curtis 20990*. Holotype: MEL.

Ulota D. Mohr, 1806.
U. bruchii Hornschuch in Bridel, 1827.
U. bruchii var. *norvegica* Grönvall, Bidrag Kännedomen Nord. Orthotrichum & Ulota 22. 1885.
Other use: *Ulota crispa* var. *norvegica* (Grönvall) A. J. E. Smith & M. O. Hill, 1975.
U. cervina Hoe & H. Crum, Bryologist 74: 487. f. 10-13. 1971 [1972].
Type: U.S.A. Hawaii: Maui, vicinity of Base Camp no. 3, 6375-6400 feet, Kipahulu Valley, *Hoe 1803.0*. Holotype: MICH; isotypes: ALTA, BISH, BO, CANM, COLO, DUKE, F, FH, H, MO, NICH, NY, PC, S-PA, UBC, US, herb. Hoe.
U. crispa (Hedwig) Bridel, 1819 [1818].
U. crispa var. *norvegica* (Grönvall) A. J. E. Smith & M. O. Hill, J. Bryol. 8: 431. 1975.
Basionym: *Ulota bruchii* var. *norvegica* Grönvall, 1885.
U. hattorii Iwatsuki, J. Hattori Bot. Lab. 32: 280. f. 7. 1969.
Type: Malaysia [Borneo]. Sabah: Mt. Kinabalu, Sayat Sayat, 3350-3700 m, *Iwatsuki 949*. Holotype: NICH. Paratype cited.

+ **Uskatia** Neuberg, 1960.
+ *U. dentata* Fefilova, Listos. Mhi Permi Evr. Severa SSSR 38. f. 9. pl. 9. 1978.
Type: U.S.S.R. N of Pre-Ural Depression, Iusel Creek, tributary of Kosin Ro, Ufa Stage, *Inst. Geol. 306/133*. Holotype: SYKO.
+ *U. vicina* Fefilova, Listos. Mhi Permi Evr. Severa SSSR 41. f. 10. pl. 8. 1978.
Type: U.S.S.R. N of Pre-Ural Depression, Adzva, Ufa Stage, *Inst. Geol. 306/79*. Holotype: SYKO.

Usmania Lazarenko, Dopov. Akad. Nauk Ukrajins'k. RSR 11: 1039. 1970.
Type: *U. campylopoda* Lazarenko, holotype.
Original placement: Pottiaceae subfam. Eucladioideae.
U. campylopoda Lazarenko, Dopov. Akad. Nauk Ukrajins'k. RSR 11: 1040. f. 1-6. 1970.
Type: U.S.S.R. Tajik S.S.R., in decliviis jugi Tuyun Tau, 650 m, *Mamatkulov 8266*. Herbarium not specified by author.
Other use: *Grimmia campylopoda* (Lazarenko) K. Saito, 1973.

***Valdiviella** Thériot & Herzog in Herzog, Rev. Bryol. Lichénol. 1: 98. 1928.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Valdiviella* A. F. W. Schimper in Karsten, 1907.
Correct name: *Muscoherzogia* Ochyra, 1982.
V. pauperculata Thériot & Herzog in Herzog, Rev. Bryol., n.s. 1: 98. f. 1-2. 1928.
Other use: *Muscoherzogia pauperculata* (Thériot & Herzog in Herzog) Ochyra, 1982.

Venturiella C. Müller, 1875.
V. sinensis (Ventenat in Rabenhorst) C. Müller, 1897.
V. sinensis var. *angustiannulata* Griffin & A. J. Sharp ex Griffin, Phytologia 57: 58. 1985.
Type: U.S.A. Texas: McKittrick Canyon, *Griffin C3*. Holotype: FLAS; isotype: TENN.
Note: invalid, holotype not indicated (Article 37.1), in J. Hattori Bot. Lab. 34: 398. 1971.

Verrucidens Cardot & Nordenskjold, 1908.
**V. microcarpus* (Mitten) Zanten in Zinderen Bakker, Winterbottom & R. A. Dyer, Marion & Prince Edward Islands, Musci 191. 1971.
*invalid, basionym not cited (Article 33.2).

Vesicularia (C. Müller) C. Müller, 1896.
V. caloosiensis (Austin) H. Crum, Bryologist 74: 169. 1971.
Basionym: *Hypnum caloosiense* Austin, 1879.
V. ectropotheciopsis Norris & T. Koponen, Ann. Bot. Fenn. 22: 391. f. 12. 1985.
Type: Papua New Guinea. East Sepik: Frieda River, Frieda airstrip, 50-150 m, *Koponen 36137*. Holotype: H; isotypes: HSC, LAE.
V. flaccida (Sullivant & Lesquereux) Iwatsuki, J. Hattori Bot. Lab. 26: 70. 1963.
Basionym: *Hypnum flaccidum* Sullivant & Lesquereux, 1859.
V. hainanensis Chen Pan-chieh, Sunyatsenia 6: 193. pl. 32. 1941.
Note: not in Index Muscorum.
V. hilliana (Hampe) B. H. Allen, Mem. New York Bot. Gard. 45: 676. 1987.
Basionym: *Hypnum hillianum* Hampe, 1876.
V. inflectens (Bridel) C. Müller, 1896.
V. inflectens var. *glauca* (C. Müller) Schultze-Motel, Willdenowia 7: 402. 1974.
Basionym: *Hypnum calodictyon* var. *glaucum* C. Müller, 1874.
V. vesicularis (Schwägrichen) Brotherus, 1908.
V. vesicularis var. *crassicaulis* (Mitten) Buck, Brittonia 36: 181. 1984.
Basionym: *Ectropothecium crassicaule* Mitten, 1869.
V. vesicularis var. *portoricensis* (Bridel) Buck, Brittonia 36: 181. 1984.
Basionym: *Leskea rutilans* var. *portoricensis* Bridel, 1827.
V. vesicularis var. *rutilans* (Bridel) Buck, Brittonia 36: 181. 1984.
Basionym: *Leskea rutilans* Bridel, 1827.

Viridivellus Stone, J. Bryol. 9: 21. 1976.
Original placement: Viridivelleraceae.
Type: *V. pulchellum* Stone, holotype.
V. pulchellum Stone, J. Bryol. 9: 21. f. 1-4. pl. 1. 1976.
Type: Australia. Queensland: Wallaman Falls track, W of Ingham, 145°48' E, 18°35' S, 450 m, *Stone 8464*. Holotype: MEL; isotypes: BM, MELU, herb. Scott, herb. Stone.

Vittia Ochyra, J. Hattori Bot. Lab. 62: 391. 1987.
Type: *Gymnostomum pachyloma* Montagne, *V. pachyloma* (Montagne) Ochyra, holotype.
Original placement: Vittiaceae.
V. pachyloma (Montagne) Ochyra, J. Hattori Bot. Lab. 62: 395. 1987.
Basionym: *Gymnostomum pachyloma* Montagne, 1838.

+ **Vorcutannularia** Pogorevitsch ex Neuberg, 1960.
+ *V. laevis* Fefilova, Listos. Mhi Permi Evr. Severa SSSR 78. f. 20. pl. 20, 22: 3-4. 1978.
Type: U.S.S.R. N of Pre-Ural Depression, Adzva, Tatar Stage, *Inst. Geol. 306/66*. Holotype: SYKO.

Warburgiella C. Müller ex Brotherus, 1900.
W. leptocarpa (Schwägrichen) Fleischer, 1923.
W. leptocarpa var. *altepapillosa* (Dixon) Touw, J. Hattori Bot. Lab. 44: 150. 1978.
Basionym: *Trichosteleum leptocarpon* var. *altepapillosum* Dixon, 1935.
W. leptocarpa var. *bacvietensis* Tixier, Rev. Bryol. Lichénol. 34: 168. 1966.
Type: Vietnam. Col de Lo-Qui-Ho, 1800 m, *Petelot 69 p.p.* Holotype: PC.
W. pallida Zanten, Nova Guinea, Bot. 10(16): 330. 1964.
Replaced name: *Trichosteleum pallidum* E. B. Bartram, 1942.
Blocking name: *Trichosteleum pallidum* Dixon, 1941.
Note: new name, based on adoption of earlier epithet (Article 72.Note 1).
W. pendula Zanten, Nova Guinea, Bot. 10(16): 333. pl. 30: f. 2. 1964.
Type: Indonesia [New Guinea]. Irian Barat: Mt. Antares, Camp 40, 2400 m, *Zanten 605*. Holotype: L; isotype: GRO.
W. venemae Zanten, Nova Guinea, Bot. 10(16): 332. pl. 30: f. 1. 1964.
Type: Indonesia [New Guinea]. Irian Barat: Mt. Antares, Camp 39a, 1500 m, *Zanten 341a*. Holotype: L; isotype: GRO.
W. weidenii Zanten, Nova Guinea, Bot. 10(16): 330. pl. 29: f. 5. 1964.
Type: Indonesia [New Guinea]. Irian Barat: Woropko, 100 m, *Zanten 206*. Holotype: L; isotype: GRO.
W. weidenii var. *ascendens* Zanten, Nova Guinea, Bot. 10(16): 332. 1964.
Type: Indonesia [New Guinea]. Irian Barat: Umkubun, 400 m, *Zanten 264*. Holotype: L; isotype: GRO.

Warnstorfia Loeske, 1907.
W. crassicostata (Janssens) H. Crum & L. E. Anderson, Bryologist 92: 533. 1989.
Basionym: *Drepanocladus crassicostatus* Janssens, 1983.
W. exannulata (W. P. Schimper in B.S.G.) Loeske, 1907.
W. exannulata var. *purpurascens* (W. P. Schimper) Tuomikoski & T. Koponen, Ann. Bot. Fenn. 16: 223. 1979.
Basionym: *Hypnum fluitans* var. *purpurascens* W. P. Schimper, 1860.
W. fluitans (Hedwig) Loeske, 1907.
W. fluitans var. *falcata* (Sanio ex C. E. O. Jensen) H. Crum & L. E. Anderson, Bryologist 92: 533. 1989.
Basionym: *Harpidium exannulatum* var. *falcatum* Sanio ex C. E. O. Jensen, 1887.
W. procera (Renauld & H. Arnell in Husnot) Tuomikoski, Ann. Bot. Fenn. 10: 216. 1973.
Basionym: *Hypnum fluitans* var. *procerum* Renauld & H. Arnell in Husnot, 1894.
W. pseudosarmentosa (Cardot & Thériot) Tuomikoski & T. Koponen, Ann. Bot. Fenn. 16: 223. 1979.
Basionym: *Hypnum pseudosarmentosum* Cardot & Thériot, 1906.
W. pseudostraminea (C. Müller) Tuomikoski & T. Koponen, Ann. Bot. Fenn. 16: 223. 1979.
Basionym: *Hypnum pseudostramineum* C. Müller, 1855.
W. trichophylla (Warnstorf) Tuomikoski & T. Koponen, Ann. Bot. Fenn. 16: 223. 1979.
Basionym: *Drepanocladus rotae* var. *trichophyllus* Warnstorf, 1906.

***Webera** Hedwig, 1801.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Webera* Schreber, 1791.
W. annotina (Hedwig) Bruch in Schwägrichen, 1830.
W. annotina var. *glareola* Ruthe & Grebe, Hedwigia 40(Beibl.): 109. 1901.
Other use: *Pohlia camptotrachela* var. *glareola* (Ruthe & Grebe) Wijk & Margadant, 1965.
W. aristatula Brotherus & Paris, Oefers. Förh. Finska Vetensk.-Soc. 51A(17): 21. 1909.
Other use: *Pohlia aristatula* (Brotherus & Paris) H. A. Miller, H. O. Whittier & B. Whittier, 1978.
W. baldwinii Brotherus ex E. B. Bartram, Bernice P. Bishop Mus. Bull. 101: 108. f. 76. 1933.
Other use: *Pohlia baldwinii* (Brotherus ex E. B. Bartram) Schultze-Motel, 1962.
Note: treated as invalid in Index Muscorum and cited from Boll. Soc. Bot. Ital. 1904: 25. 1904.
W. calcarea Warnstorf, Allg. Bot. Z. Syst. 5(Beih. 1): 30. 1899.
Other use: *Pohlia wahlenbergii* var. *calcarea* (Warnstorf) E. F. Warburg, 1962 [1963].

Webera, continued.

W. chrysoblasta Thériot & Naveau, Bull. Soc. Roy. Bot. Belgique 60: 37. f. 17. 1927.
Other use: *Pohlia chrysoblasta* (Thériot & Naveau) Demaret in Demaret & Potier de la Varde, 1977.

W. clavicaulis Brotherus in Herzog, Biblioth. Bot. 87: 80. 1916.
Other use: *Pohlia clavicaulis* (Brotherus in Herzog) F. J. Hermann, 1976.

W. depauperata Sim, Trans. Roy. Soc. South Africa 15: 323. 1926.
Other use: *Pohlia depauperata* (Sim) Schelpe in Magill & Schelpe, 1979.

W. flexuosa Bridel, 1827.

W. flexuosa var. *propagulifera* Renauld & Cardot, Bull. Soc. Roy. Bot. Belgique 41(1): 65. 1902-03 [1905].
Other use: *Pohlia flexuosa* var. *propagulifera* (Renauld & Cardot) Gangulee, 1974.

W. geniculata Bridel, Bryol. Univ. 2: 829. 1827.
Replaced name: *Bryum geniculatum* Bridel, 1827.
Blocking name: *Bryum geniculatum* Villars ex Bridel, 1803.
Other use: *Pohlia geniculata* (Bridel) Wijk & Margadant, 1965.
Note: new name, based on adoption of earlier epithet (Article 72.Note 1).

W. integra Cardot, Rev. Bryol. 38: 4. 1911.
Other use: *Pohlia integra* (Cardot) A. J. Shaw, 1982.

W. loriformis Herzog, Biblioth. Bot. 87: 80. f. 31. 1916.
Other use: *Pohlia loriformis* (Herzog) F. J. Hermann, 1976.

W. macleai Rehmann ex Sim, Trans. Roy. Soc. South Africa 15: 323. 1926.
Other use: *Pohlia macleai* (Rehmann ex Sim) Schelpe in Magill & Schelpe, 1979.

W. mauiensis Brotherus ex E. B. Bartram, Bernice P. Bishop Mus. Bull. 101: 109. 1933.
Other use: *Pohlia mauiensis* (Brotherus ex E. B. Bartram) Schultze-Motel, 1962.

W. otaruensis Cardot, Bull. Soc. Bot. Genève, ser. 2, 1: 124. 1909.
Other use: *Pohlia nutans* subsp. *otaruensis* (Cardot) Ochi, 1968.

W. pseudobarbula Thériot, Smithsonian Misc. Collect. 85(4): 28. f. 17. 1931.
Other use: *Pohlia pseudobarbula* (Thériot) H. Crum ex A. J. Shaw, 1982.

**W. revoluta* Sim, Trans. Roy. Soc. South Africa 15: 324. 1926.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Webera revoluta* Cardot, 1909.
Other use: *Pohlia simii* Schelpe in Magill & Schelpe, 1979.

W. subleptopoda Brotherus in Herzog, Biblioth. Bot. 87: 79. 1916.
Other use: *Pohlia subleptopoda* (Brotherus in Herzog) F. J. Hermann, 1976.

W. synoica Dixon, Anniv. Vol. Bot. Gard. Calcutta 182. 1942.
Note: not in Index Muscorum.

***Webera** Lindberg, 1863.
*illegitimate, later homonym (Article 64.1), and type of earlier name included (Article 63.1).
Earlier name: *Webera* Schreber, 1791.
Correct name: *Diphyscium* D. Mohr, 1803.
W. elmeri Brotherus, Leafl. Philipp. Bot. 2: 654. 1909.
Other use: *Diphyscium rupestre* var. *elmeri* (Brotherus) Iwatsuki & B. C. Tan, 1980.

Weisiopsis Brotherus, 1921.
W. involuta Magill, Fl. S. Africa, Bryophyta, Mosses 1: 225. f. 65: 18-27. 1981 [1982].
Type: Botswana. Boteti River, *Smith 2603a*. Holotype: PRE; isotypes: H, MO, NY, SRGH.
W. stenocarpa Thériot, Smithsonian Misc. Collect. 85(4): 14. f. 8. 1931.
Other use: *Oxystegus tenuirostris* var. *stenocarpa* (Thériot) Zander, 1982, *Trichostomum stenocarpum* (Thériot) H. Crum, 1981.

Weissia Hedwig, 1801.
**W. amblyphylla* (Dixon) Dixon, J. Indian Bot. Soc. 10: 146. 1931.
*illegitimate, later homonym (Article 64.1).
Basionym: *Hymenostomum amblyphyllum* Dixon, 1929.
Earlier name: *Weissia amblyophylla* J. E. Zetterstedt, 1869.
Correct name: *Weissia norkettii* R. S. Chopra, 1975.
W. andersoniana Zander, Monogr. Syst. Bot. Missouri Bot. Gard. 11: 195. 1985.
Replaced name: *Weissia glauca* E. B. Bartram, 1927.
Blocking name: *Weissia glauca* (Hedwig) Arnott, 1827.
**W. angustatum* Brotherus in H. P. Ramsay, Taxon 29: 468. 1980.
*invalid, no Latin description (Article 36.1).
W. atrocaulis K. Saito, J. Hattori Bot. Lab. 39: 425. f. 23: 1-11. 1975.
Type: Japan [Honshu]. Iwate: Higshiiwai-gun, Nagasaka-mura, 100 m, *Higuchi 10638*. Holotype: TNS.
Original placement: subgen. *Hymenostomum*.
W. austrocrispa (Beckett) Stone, J. Bryol. 11: 236. 1980.
Basionym: *Phascum austrocrispum* Beckett, 1893 [1894].
W. bartramioides Griffith, Calcutta J. Nat. Hist. 2: 489. 1842.
Other use: *Philonotis bartramioides* (Griffith) Griffin & Buck, 1989.
W. brachycarpa (Nees & Hornschuch) Juratzka, 1882.
W. brachycarpa var. *obliqua* (Nees & Hornschuch) M. O. Hill, J. Bryol. 11: 601. 1981 [1982].
Basionym: *Hymenostomum obliquum* Nees & Hornschuch, 1823.
W. brachypoma C. C. Townsend, J. Bryol. 11: 695. f. 1. 1981 [1982].
Type: Tanzania. Ufipa, road from Sumbawanga to Mbala (Zambia), ca. 1650 m, *Townsend 80/265*. Holotype: BM; isotype: herb. Townsend.

Weissia, continued.

W. brotherusii R. Brown ter, Trans. & Proc. New Zealand Inst. 31: 441. pl. 38: f. 8. 1898.

Other use: *Ditrichum brotherusii* (R. Brown ter) Seppelt, 1980.

W. campylocarpa Arnott & W. J. Hooker in W. J. Hooker, Icon. Pl. Rar. 2: pl. 136. 1837.

Other use: *Schizymenium campylocarpum* (Arnott & W. J. Hooker in W. J. Hooker) A. J. Shaw, 1985.

W. clavinervis Cardot & Potier de la Varde, Rev. Bryol. 39: 20. f. 2. 1912.

Other use: *Trichostomum clavinerve* (Cardot & Potier de la Varde) H. O. Whittier in H. O. Whittier & B. Whittier, 1974.

W. controversa Hedwig, 1801.

W. controversa var. *crispata* (Nees & Hornschuch) Nyholm, Ill. Moss Fl. Fennoscandia. II. Musci 775. 1969.

Basionym: *Hymenostomum crispatum* Nees & Hornschuch, 1823.

Note: invalid, basionym not cited (Article 33.2), in Ill. Moss Fl. Fennoscandia. II. Musci 133. 1956.

W. controversa var. *densifolia* (Bruch & W. P. Schimper in B.S.G.) Demaret in Demaret & Castagne, Fl. Gén. Belgique, Bryoph. 2: 242. 1964.

Basionym: *Weissia viridula* var. *densifolia* Bruch & W. P. Schimper in B.S.G., 1846.

W. controversa var. *hioramii* Thériot & Bizot, Bull. Mens. Soc. Linn. Soc. Bot. Lyon 34: 311. 1965.

Type: Cuba. Loma del Gato, *Hioram 12486*. Holotype: herb. Thériot.

Note: invalid, no Latin description (Article 36.1), in Thériot, Mem. Soc. Bot. Cub. Hist. Nat. "Felipe Poey" 13(5): 270. 1939.

W. controversa var. *longiseta* (Lesquereux & T. P. James) H. Crum, Steere & L. E. Anderson, Bryologist 67: 164. 1964.

Basionym: *Weissia longiseta* Lesquereux & T. P. James, 1879.

W. controversa var. *pillansii* Schelpe, Trans. Roy. Soc. South Africa 44: 116. 1979.

Replaced name: *Weissia viridula* var. *brachycarpa* Dixon, 1930 [1929].

Blocking name: *Weissia controversa* var. *brachycarpa* Nees & Hornschuch, 1831.

W. controversa var. *tenuiseta* (Bescherelle) Noguchi in Iwatsuki & Noguchi, J. Jap. Bot. 48: 218. 1973.

Basionym: *Weissia viridula* var. *tenuiseta* Bescherelle, 1893.

W. controversa var. *wolffii* (Lesquereux & T. P. James) H. Crum, Steere & L. E. Anderson, Bryologist 67: 164. 1964, "*wolfii*."

Basionym: *Weissia wolffii* Lesquereux & T. P. James, 1879.

W. deciduaefolia K. Saito, J. Hattori Bot. Lab. 39: 429. f. 25: 1-8. 1975.

Type: Japan [Kyushu]. Miyazaki: Nichinan, Obi, *Saito 13984*. Holotype: TNS.

Original placement: subgen. *Weissia*.

W. euteiches Zander, Monogr. Syst. Bot. Missouri Bot. Gard. 11: 195. 1985.

Replaced name: *Gymnostomum tortile* Schwägrichen in Schkuhr, 1810 [May].

Blocking name: *Weissia tortilis* Sprengel, 1827.

Weissia, continued.

**W. glauca* E. B. Bartram, Bryologist 30: 80. f. 7. 1927.
*illegitimate, later homonym (Article 64.1).
Earlier name: *Weissia glauca* (Hedwig) Arnott, 1827.
Correct name: *Weissia andersoniana* Zander, 1985.

W. hedwigii H. Crum, Bryologist 74: 169. 1971.
Replaced name: *Weissia microstoma* (Hedwig) C. Müller, 1849.
Blocking name: *Weissia microstoma* Hornschuch ex Nees & Hornschuch, 1831.

W. inoperculata (H. Crum) H. Crum, Steere & L. E. Anderson, Bryologist 67: 164. 1964.
Basionym: *Hymenostomum inoperculatum* H. Crum, 1957.

W. longifolia Mitten, 1851.

W. longifolia var. *angustifolia* (Baumgartner in Ginzberger) Crundwell & Nyholm, J. Bryol. 7: 14. 1972.
Basionym: *Astomum crispum* var. *angustifolium* Baumgartner in Ginzberger, 1915.

W. longiseta Lesquereux & T. P. James, Proc. Amer. Acad. Arts 14: 135. 1879.
Other use: *Weissia controversa* var. *longiseta* (Lesquereux & T. P. James) H. Crum, Steere & L. E. Anderson, 1964.

W. ludoviciana (Sullivant in A. Gray) W. D. Reese & B. A. E. Lemmon, Bryologist 68: 282. 1965.
Basionym: *Phascum ludovicianum* Sullivant in A. Gray, 1856.

W. malayensis (Fleischer) Manuel, Fed. Mus. J. 26: 161. 1981.
Basionym: *Hymenostomum malayense* Fleischer, 1904.

**W. microstoma* (Hedwig) C. Müller, Syn. Musc. Frond. 1: 660. 1849.
*illegitimate, later homonym (Article 64.1).
Basionym: *Gymnostomum microstomum* Hedwig, 1801.
Earlier name: *Weissia microstoma* Hornschuch ex Nees & Hornschuch, 1831.
Correct name: *Weissia hedwigii* H. Crum, 1971.

W. minycarpa Zander, Monogr. Syst. Bot. Missouri Bot. Gard. 11: 196. 1985.
Replaced name: *Trichostomum microcarpum* W. P. Schimper ex Bescherelle, 1876.
Blocking name: *Weissia microcarpa* W. J. Hooker & Wilson, 1859.

W. muhlenbergiana (Swartz) W. D. Reese & B. A. E. Lemmon, Bryologist 68: 282. 1965, "*muehlenbergiana*."
Basionym: *Phascum muhlenbergianum* Swartz, 1829.

W. newcomeri (E. B. Bartram) K. Saito, J. Hattori Bot. Lab. 39: 423. 1975.
Basionym: *Hymenostomum newcomeri* E. B. Bartram, 1947.

W. norkettii R. S. Chopra, Taxon. Indian Mosses 125. 1975.
Replaced name: *Weissia amblyphylla* (Dixon) Dixon, 1931.
Blocking name: *Weissia amblyophylla* J. E. Zetterstedt, 1869.

W. occidentalis (Flowers) Stoneburner, Bryologist 88: 310. 1985 [1986].
Basionym: *Astomum occidentale* Flowers, 1973.

Weissia, continued.

W. opaca (Dixon) Magill in Magill & Schelpe, Mem. Bot. Surv. South Africa 43: 7. 1979.

Basionym: *Tortella opaca* Dixon, 1922.

W. papillosissima Lazarenko, Dopov. Akad. Nauk Ukrajins'k. RSR 1967: 752. f. 1. 1967.

Type: U.S.S.R. Tadzh S.S.R., Ghissar Mountain, basin of River Varzob, Guschschari Ravine, 1450 m, *Mamatkulov*, 1966. Herbarium not specified by author.

Other use: *Hymenostomum papillosissimum* (Lazarenko) Savicz-Ljubitskaya, 1969 [1970].

W. perligulata Flowers, Bryologist 76: 292. 1973.

Type: U.S.A. Utah: San Juan Co., Indian Canyton, near Kelley's Ranch, 5500 feet, *Flowers 8261*. Holotype: UT.

W. perpusilla (C. Müller) Stone, J. Bryol. 11: 231. 1980.

Basionym: *Phascum perpusillum* C. Müller, 1872.

W. phascopsis Zander, Monogr. Syst. Bot. Missouri Bot. Gard. 11: 196. 1985.

Replaced name: *Gymnostomum phascoides* W. J. Hooker in Drummond, 1828.

Blocking name: *Weissia phascoides* (Wilson ex B.S.G.) C. Müller, 1851.

W. recurvirostris Hedwig, 1801.

W. recurvirostris var. *insignis* Dixon, J. Bot. 40: 377. 1902.

Other use: *Gymnostomum insigne* (Dixon) A. J. E. Smith, 1976.

W. rostellata (Bridel) Lindberg, 1864.

W. rostellata var. *phascoides* (W. J. Hooker in Drummond) W. D. Reese & B. A. E. Lemmon, Bryologist 68: 283. 1965.

Basionym: *Gymnostomum phascoides* W. J. Hooker in Drummond, 1828.

W. semidiaphana (Thériot) Zander, Monogr. Syst. Bot. Missouri Bot. Gard. 11: 197. 1985.

Basionym: *Hymenostomum semidiaphanum* Thériot, 1931.

W. sharpii L. E. Anderson & B. A. E. Lemmon, Bryologist 76: 133. f. 9-10, 12-24. 1973.

Type: U.S.A. Tennessee: Jefferson Co., 5 miles W of Dandridge, junction with Highway U.S. 70, Moore Road, *Anderson 25193*. Holotype: DUKE; isotypes: LAF, MICH, NY, TENN.

W. subangustifolia (Thériot) Zander, Bryologist 86: 156. 1983.

Basionym: *Hyophila subangustifolia* Thériot, 1931.

W. tenuirostris W. J. Hooker & Taylor, Muscol. Brit. (ed. 2) 83. 1827.

Other use: *Oxystegus tenuirostris* (W. J. Hooker & Taylor) A. J. E. Smith, 1977.

W. triumphans (De Notaris in W. P. Schimper) M. O. Hill, J. Bryol. 11: 600. 1981 [1982].

Basionym: *Trichostomum triumphans* De Notaris in W. P. Schimper, 1860.

W. unguiculata (Mitten) Crundwell & Nyholm, J. Bryol. 8: 69. 1974.

Basionym: *Systegium unguiculatum* Mitten, 1886.

**W. viridula* Hedwig ex Bridel, 1819 [1818].

*illegitimate, type of earlier name included (Article 63.1).

Weissia, continued.
W. viridula var. *brachycarpa* Dixon, Trans. Roy. Soc. South Africa 18: 251. 1930 [1929].
Replaced name: *Weissia brachycarpa* C. Müller, 1899.
Blocking name: *Weissia brachycarpa* (Nees & Hornschuch) Juratzka, 1882.
Other use: *Weissia controversa* var. *pillansii* Schelpe, 1979.
W. viridula var. *densifolia* Bruch & W. P. Schimper in B.S.G., Bryol. Eur. 1: 65. pl. 22: τ (fasc. 33-36. Monogr. 5. pl. 3: τ). 1846.
Other use: *Weissia controversa* var. *densifolia* (Bruch & W. P. Schimper in B.S.G.) Demaret in Demaret & Castagne, 1964.
W. viridula var. *seligerioides* Amann, Fl. Mouss. Suisse 2(Add. Rectific.): 1. 1919.
Note: not in Index Muscorum.
W. viridula var. *tenuiseta* Bescherelle, Ann. Sci. Nat. Bot., ser. 7, 17: 330. 1893.
Other use: *Weissia controversa* var. *tenuiseta* (Bescherelle) Noguchi in Iwatsuki & Noguchi, 1973.
W. willisiana (Sainsbury) Catcheside, Mosses S. Australia 194. 1980.
Basionym: *Pottia willisiana* Sainsbury, 1956.
Note: redundant combination in Stone, J. Bryol. 11: 235. 1980 [27 Mar 1981].
W. wolffii Lesquereux & T. P. James, Proc. Amer. Acad. Arts 14: 136. 1879, "*wolffi*."
Other use: *Weissia controversa* var. *wolffii* (Lesquereux & T. P. James) H. Crum, Steere & L. E. Anderson, 1964.

Werneriobryum Herzog, 1909.
W. geluense Herzog, Hedwigia 49: 122. f. 6. 1909.
Other use: *Dicranoloma geluense* (Herzog) B. H. Allen, 1986.

Weymouthia Brotherus in Engler & Prantl, 1906.
W. orbiculata Thériot, Rev. Bryol. Lichénol. 7: 180. f. 9. 1934 [1935].
Other use: *Camptochaete orbiculata* (Thériot) H. Robinson, 1970.

Wijkia H. Crum, Bryologist 74: 170. 1971.
Replaced name: *Acanthocladium* Mitten, 1883.
Blocking name: *Acanthocladium* F. Müller, 1861.
W. sect. *Acanthocladiopsis* (Fleischer) H. Crum, Bryologist 74: 179. 1971.
Basionym: *Acanthocladium* sect. *Acanthocladiopsis* Fleischer, 1923.
W. sect. *Andoa* Buck, Hikobia 9: 299. 1986.
Type: *Hypnum tanytrichum* Montagne, *W. tanytricha* (Montagne) Crum, holotype.
W. sect. *Tanythrix* (Fleischer) H. Crum, Bryologist 74: 170. 1971.
Basionym: *Acanthocladium* sect. *Tanythrix* Fleischer, 1923.
W. albescens (Thériot & Potier de la Varde) H. Crum, Bryologist 74: 170. 1971.
Basionym: *Acanthocladium albescens* Thériot & Potier de la Varde, 1925.
W. alboalaris (Tixier) Manuel, Fed. Mus. J. 26: 161. 1981.
Basionym: *Acanthocladium alboalare* Tixier, 1970 [1971].

Wijkia, continued.

W. annamensis (Brotherus ex Thériot) H. Crum, Bryologist 74: 171. 1971.
Basionym: *Acanthocladium annamense* Brotherus ex Thériot, 1931.

W. baculifera (Dixon) H. Crum, Bryologist 74: 171. 1971.
Basionym: *Acanthocladium baculiferum* Dixon, 1937.

W. benguetensis (Brotherus) H. Crum, Bryologist 74: 171. 1971.
Basionym: *Acanthocladium benguetense* Brotherus, 1926.

W. benguetensis var. *latifolia* (E. B. Bartram) H. Crum, Bryologist 74: 171. 1971.
Basionym: *Acanthocladium benguetense* var. *latifolium* E. B. Bartram, 1943.

W. bessonii (Renauld & Cardot) H. Crum, Bryologist 74: 171. 1971.
Basionym: *Microthamnium bessonii* Renauld & Cardot, 1893 [1894].

W. brevifolia (Dixon) H. Crum, Bryologist 74: 171. 1971.
Basionym: *Acanthocladium brevifolium* Dixon, 1935.

W. carlottae (Schofield) H. Crum, Bryologist 74: 171. 1971.
Basionym: *Acanthocladium carlottae* Schofield, 1966.

W. ceylonensis (Brotherus & Dixon ex Dixon) H. Crum, Bryologist 74: 171. 1971.
Basionym: *Acanthocladium ceylonense* Brotherus & Dixon ex Dixon, 1915.

W. clarkii (Dixon) H. Crum, Bryologist 74: 171. 1971.
Basionym: *Acanthocladium clarkii* Dixon, 1922.

W. clastobryoides (Tixier) Ninh, Acta Bot. Acad. Sci. Hung. 27: 159. 1981.
Basionym: *Acanthocladium clastobryoides* Tixier, 1966.

W. concavifolia (Cardot) H. Crum, Bryologist 74: 171. 1971.
Basionym: *Acanthocladium concavifolium* Cardot, 1912.

W. costaricensis (E. B. Bartram & Dixon in E. B. Bartram) H. Crum, Bryologist 74: 174. 1971.
Basionym: *Acanthocladium costaricense* E. B. Bartram & Dixon in E. B. Bartram, 1931.

W. crossii (Brotherus & Geheeb) H. Crum, Bryologist 74: 171. 1971.
Basionym: *Acanthocladium crossii* Brotherus & Geheeb, 1893.

W. cuynetii (Bizot) Schultze-Motel, Willdenowia 7: 520. 1975.
Basionym: *Acanthocladium cuynetii* Bizot, 1973.

W. deflexifolia (Mitten ex Renauld & Cardot) H. Crum, Bryologist 74: 171. 1971.
Basionym: *Acanthocladium deflexifolium* Mitten ex Renauld & Cardot, 1902-03 [1905].
Note: redundant combination in S. H. Shin, J. Taiwan Mus. 37(2): 55. 1984.

W. dentigera (Dixon) H. Crum, Bryologist 74: 171. 1971.
Basionym: *Acanthocladium dentigerum* Dixon, 1939.

W. doii (Sakurai) H. Crum, Bryologist 74: 171. 1971.
Basionym: *Acanthocladium doii* Sakurai, 1932.

W. extenuata (Bridel) H. Crum, Bryologist 74: 171. 1971.
Basionym: *Hypnum extenuatum* Bridel, 1819 [1818].

W. filipendula (Dixon) H. Crum, Bryologist 74: 171. 1971.
Basionym: *Acanthocladium filipendulum* Dixon, 1935.

W. flagellifera (Brotherus) H. Crum, Bryologist 74: 172. 1971.
Basionym: *Trichosteleum flagelliferum* Brotherus, 1895.

Wijkia, continued.

W. gonoi (Brotherus ex Iishiba) H. Crum, Bryologist 74: 172. 1971.
Basionym: *Acanthocladium gonoi* Brotherus ex Iishiba, 1929.

W. gracilis (E. B. Bartram) H. Crum, Bryologist 74: 172. 1971.
Basionym: *Acanthocladium gracile* E. B. Bartram, 1957.

W. hornschuchii (Fleischer) H. Crum, Bryologist 74: 172. 1971.
Basionym: *Acanthocladium hornschuchii* Fleischer, 1923.
Note: valid, error of bibliographic citation of basionym (Article 33.2), "*Hypnum hornschuchii* Dozy & Molkenboer."

W. hornschuchii var. *robusta* (Zanten) H. Crum, Bryologist 74: 172. 1971.
Basionym: *Acanthocladium hornschuchii* var. *robustum* Zanten, 1964.

W. jacobsonii (Dixon) H. Crum, Bryologist 74: 172. 1971.
Basionym: *Acanthocladium jacobsonii* Dixon, 1932.

W. juliformis (Herzog & Dixon) H. Crum, Bryologist 74: 172. 1971.
Basionym: *Acanthocladium juliforme* Herzog & Dixon, 1933.

W. jungneri (Brotherus) H. Crum, Bryologist 74: 172. 1971.
Basionym: *Acanthocladium jungneri* Brotherus, 1897.

W. jungneri var. *subintegrifolia* (Potier de la Varde) H. Crum, Bryologist 74: 172. 1971.
Basionym: *Acanthocladium jungneri* var. *subintegrifolium* Potier de la Varde, 1934.

W. laxa (Dixon) H. Crum, Bryologist 74: 172. 1971.
Basionym: *Acanthocladium laxum* Dixon, 1932.

W. laxitexta (Renauld & Cardot) H. Crum, Bryologist 74: 172. 1971.
Basionym: *Rhaphidostegium laxitextum* Renauld & Cardot, 1895 [1896].

W. lepida (Mitten) H. Crum, Bryologist 74: 172. 1971.
Basionym: *Stereodon lepidus* Mitten, 1859.

W. letestui (Thériot & Potier de la Varde) H. Crum, Bryologist 74: 172. 1971.
Basionym: *Acanthocladium letestui* Thériot & Potier de la Varde, 1933.

W. longipila (Brotherus) H. Crum, Bryologist 74: 172. 1971.
Basionym: *Acanthocladium longipilum* Brotherus, 1911.

W. macgregorii (Brotherus & Geheeb) H. Crum, Bryologist 74: 172. 1971, "*macgregori*."
Basionym: *Sematophyllum macgregorii* Brotherus & Geheeb, 1895.

W. madagassa (Thériot) H. Crum, Bryologist 74: 173. 1971.
Basionym: *Acanthocladium madagassum* Thériot, 1923.

W. nakanishikii (Brotherus) H. Crum, Bryologist 74: 173. 1971.
Basionym: *Acanthocladium nakanishikii* Brotherus, 1921.

W. nivea (Herzog) H. Crum, Bryologist 74: 173. 1971.
Basionym: *Acanthocladium niveum* Herzog, 1926.

W. papillata (Zanten) H. Crum, Bryologist 74: 173. 1971.
Basionym: *Acanthocladium papillatum* Zanten, 1964.

W. pendula (Zanten) H. Crum, Bryologist 74: 173. 1971.
Basionym: *Acanthocladium pendulum* Zanten, 1964.

W. penicillata (Mitten) H. Crum, Bryologist 74: 173. 1971.
Basionym: *Stereodon penicillatus* Mitten, 1859.

Wijkia, continued.

W. pilifera (Brotherus) H. Crum, Bryologist 74: 173. 1971.
Basionym: *Sematophyllum piliferum* Brotherus, 1905.

W. pinnata (Fleischer) H. Crum, Bryologist 74: 173. 1971.
Basionym: *Acanthocladium pinnatum* Fleischer, 1911.

W. polymorpha (Dixon) H. Crum, Bryologist 74: 173. 1971.
Basionym: *Acanthocladium polymorphum* Dixon, 1924.

W. protensa (Renauld & Cardot) H. Crum, Bryologist 74: 173. 1971.
Basionym: *Rhaphidostegium protensum* Renauld & Cardot, 1890.

W. radiculosa (Baumgartner & J. Fröhlich) H. Crum, Bryologist 74: 173. 1971.
Basionym: *Acanthocladium radiculosum* Baumgartner & J. Fröhlich, 1955.

W. rigidifolia (Dixon) H. Crum, Bryologist 74: 173. 1971.
Basionym: *Acanthocladium rigidifolium* Dixon, 1941.

W. rutenbergii (C. Müller ex Geheeb) H. Crum, Bryologist 74: 173. 1971.
Basionym: *Hypnum rutenbergii* C. Müller ex Geheeb, 1881.

W. rutenbergii var. *eflagellaris* (Cardot in Grandidier) H. Crum, Bryologist 74: 173. 1971.
Basionym: *Acanthocladium rutenbergii* var. *eflagellare* Cardot in Grandidier, 1915.

W. scabrifolia (Brotherus in H. A. Möller) Touw, J. Hattori Bot. Lab. 44: 150. 1978.
Basionym: *Acanthocladium scabrifolium* Brotherus in H. A. Möller, 1919.

**W. semitortipila* (Fleischer) Lin Shan-Hsiung, J. Taiwan Mus. 37(2): 55. 1984.
*invalid, basionym not cited (Article 33.2).

W. subflagellifera (Bizot) Buck & Steere, Moscosoa 2: 51. 1983.
Basionym: *Acanthocladium subflagelliferum* Bizot, 1965.
Note: invalid, basionym not cited (Article 33.2), in Duarte, Acta Bot. Cub. 7: 15. 1982.

W. sublepida (Brotherus) H. Crum, Bryologist 74: 173. 1971.
Basionym: *Acanthocladium sublepidum* Brotherus, 1929.

W. subnitida (Hampe) H. Crum, Bryologist 74: 173. 1971.
Basionym: *Hypnum subnitidum* Hampe, 1866.

W. surcularis (Mitten) H. Crum, Bryologist 74: 173. 1971.
Basionym: *Stereodon surcularis* Mitten, 1859.

W. tanytricha (Montagne) H. Crum, Bryologist 74: 174. 1971.
Basionym: *Hypnum tanytrichum* Montagne, 1845.

W. trichocolea (C. Müller) H. Crum, Bryologist 74: 174. 1971.
Basionym: *Hypnum trichocolea* C. Müller, 1888.

W. trichocolea var. *subintegrifolia* (Thériot & Potier de la Varde) H. Crum, Bryologist 74: 174. 1971.
Basionym: *Acanthocladium trichocolea* subsp. *subintegrifolium* Thériot & Potier de la Varde, 1927.

W. trichocoleoides (C. Müller) H. Crum, Bryologist 74: 174. 1971.
Basionym: *Hypnum trichocoleoides* C. Müller, 1886.

Wijkiella Bizot & Lewinsky in Bizot et al., Lindbergia 4: 278. 1978.
Type: *W. kenyae* Bizot & Lewinsky, holotype.
Original placement: Sematophyllaceae.
W. kenyae Bizot & Lewinsky in Bizot et al., Lindbergia 4: 278. f. 3. 1978.
Type: Kenya. Coast Province: Shimba Hills S of Mombasa, 300 m, *Rasmussen & Esbensen 23*. Holotype: C.

Willia C. Müller in Neumayer, 1890.
W. calobolax (C. Müller) Lightowlers, J. Bryol. 13: 370. 1985.
Basionym: *Barbula calobolax* C. Müller, 1883.
W. calobolax var. *angustinervia* (C. Müller) Lightowlers, J. Bryol. 13: 370. 1985.
Basionym: *Barbula calobolax* var. *angustinervia* C. Müller, 1889.

+**Yorekiella** Krasilov, Palaeontographica, Abt. B, Paläophytol. 143: 101. 1973.
Type: *Y. pusilla* Krasilov, holotype.
Original placement: not indicated by author.
+*Y. pusilla* Krasilov, Palaeontographica, Abt. B, Paläophytol. 143: 101. pl. 49: f. 87-94, 50: f. 95-97. 1973.
Type: U.S.S.R. Bureja basin, the Bolshoj Yorek River, Early Cretaceous, Aptian, *Krasilbv 521-6*. Herbarium not specified by author.

Zelometeorium Manuel, J. Hattori Bot. Lab. 43: 110. 1977 [1978].
Type: *Hypnum patulum* Hedwig, *Z. patulum* (Hedwig) Manuel, holotype.
Original placement: Meteoriaceae.
Z. allionii Manuel, J. Hattori Bot. Lab. 43: 113. f. 5. 1977.
Type: Ecuador. Cruces, 900-1000 m, *Allioni*, 1910. Holotype: H-Brotherus.
Other indicated distribution: Costa Rica.
Other use: *Zelometeorium patens* var. *allionii* (Manuel) Menzel in Schultze-Motel & Menzel, 1987.
Z. ambiguum (Hornschuch in C. Martius) Manuel, J. Hattori Bot. Lab. 43: 113. 1977.
Basionym: *Pilotrichum ambiguum* Hornschuch in C. Martius, 1840.
Z. patens (W. J. Hooker) Manuel, J. Hattori Bot. Lab. 43: 116. 1977.
Basionym: *Hypnum patens* W. J. Hooker, 1818.
Z. patens var. *allionii* (Manuel) Menzel in Schultze-Motel & Menzel, Beih. Nova Hedwigia 88: 57. 1987.
Basionym: *Zelometeorium allionii* Manuel, 1977.
Z. patens var. *recurvifolium* (Hornschuch in C. Martius) Menzel in Schultze-Motel & Menzel, Beih. Nova Hedwigia 88: 57. 1987.
Basionym: *Pilotrichum recurvifolium* Hornschuch in C. Martius, 1840.
Z. patulum (Hedwig) Manuel, J. Hattori Bot. Lab. 43: 118. 1977.
Basionym: *Hypnum patulum* Hedwig, 1801.
Z. recurvifolium (Hornschuch in C. Martius) Manuel, J. Hattori Bot. Lab. 43: 121. 1977.
Basionym: *Pilotrichum recurvifolium* Hornschuch in C. Martius, 1840.

Zygodon W. J. Hooker & Taylor, 1818.

Z. apiculatus Redfearn, Bryologist 70: 333. f. 1-9. 1967.
Type: U.S.A. Missouri: Dallas Co., along Mill Creek, 1 mile W of Celt, 900 feet, *Redfearn 12271*. Holotype: NY; isotype: SMS.

Z. baumgartneri Malta, 1924.

**Z. baumgartneri* fo. *mediterranea* (Malta) R. M. Cros, Lazaroa 5: 307. 1983.
*invalid, basionym not cited (Article 33.2).

Z. dentatus (Limpricht) Karttunen, Ann. Bot. Fenn. 21: 346. 1984.
Basionym: *Zygodon viridissimus* var. *dentatus* Limpricht, 1890.

Z. fragilis H. Robinson in H. Robinson, Holm-Nielsen & Lojtnant, Lindbergia 4: 111. f. 4. 1977.
Type: Ecuador. Carchi: Paramo El Angel, pass on road El Angel-Tulcan, 3750-3850 m, *Holm-Nielsen et al. 5419*. Holotype: AAU; isotype: US.

Z. patrum Sehnem, Pesquisas, Bot. 32: 6. pl. 20: b (pp. 94-95). 1978.
Type: Brazil. Santa Catarina: Bom Retiro, Campos dos Padres, 1770 m, *Sehnem 6994b*. Herbarium not specified by author.

Z. rubrigemmius (Hoe & H. Crum) Zander & Vitt, Canad. J. Bot. 57: 296. 1979.
Basionym: *Anoectangium rubrigemmium* Hoe & H. Crum, 1971 [1972].

Z. viridissimus (Dickson) Bridel, 1826.

Z. viridissimus var. *dentatus* Limpricht, Laubm. Deutschl. 2: 12. 1890.
Other use: *Zygodon dentatus* (Limpricht) Karttunen, 1984.

**Z. viridissimus* var. *vulgaris* Malta, Latv. Univ. Raksti 9: 119, 121. f. 1: a, 3: c. 1924.
*illegitimate, type of earlier name included (Article 63.1).
Earlier name: *Zygodon viridissimus* var. *rupestris* C. J. Hartman, 1849.
Other use: *Zygodon vulgaris* Nyholm, 1969.

Z. vulgaris Nyholm, Ill. Moss Fl. Fennoscandia. II. Musci 775. 1969.
Replaced name: *Zygodon viridissimus* var. *vulgaris* Malta, 1924.
Blocking name: *Zygodon viridissimus* var. *rupestris* C. J. Hartman, 1849.
Note: new name, based on adoption of earlier epithet (Article 72.Note 1); invalid, basionym not cited (Article 33.2), in Ill. Moss Fl. Fennoscandia. II. Musci 313. 1960.

Authors Cited in the Index

The names of all authors in *Index of Mosses* should appear in the following list. This includes "in" and "ex" authors, the former of which includes many people who otherwise are not connected with muscology or even botany. The list is strictly alphabetical by family name: diacritical marks were suppressed when alphabetizing. Initials, where used, are placed after the family name. Available information concerning birth and death dates and full names is given for each author. The names of Chinese authors working in China, including Hong Kong and Taiwan, are written in the traditional Chinese fashion: family name followed by given name(s), with the latter fully spelled out. Most Chinese names are given in the pin-yin transliteration. Some names lack diacritical marks, because the type fonts available for this *Index of Mosses* did not include them. We apologize for these mistakes, but they were unavoidable under the present circumstances.

Abramov, I. I. — Ivan Ivanovich Abramov, 1912-1990
Abramova, A. L. — Anastasia Laurentievna Abramova, 1915-
Agardh, J. — Jacob Georg Agardh, 1813-1901
Agnew — Shirley Agnew, 1933-
Aguirre — Jaime Aguirre Ceballos, 1951-
Ahti — Teuvo Tapio Ahti, 1934-
Akiyama — Hiroyuki Akiyama, 1956-
Allen, B. H. — Bruce Hampton Allen, 1952-
Allison — Kenneth Willway Allison, 1894-1976
Amann — Jean Jules Amann, 1859-1939
Anderson, L. E. — Lewis Edward Anderson, 1912-
Ando — Hisatsugu Ando, 1922-
Andrews — Albert LeRoy Andrews, 1878-1961
Andrus — Richard Edward Andrus, 1941-
Ångström — Johan Ångström, 1813-1879
Argent — Graham Charles George Argent, 1943-
Arnell, H. — Hampus Wilhelm Arnell, 1848-1932
Arnold — Ferdinand Christian Gustav Arnold, 1828-1901
Arnott — George Arnott Walker Arnott, 1799-1868
Arts — Theo Albert Arts, 1942-
Arzeni — Charles Basel Arzeni, 1925-
Ao Zhi-wen — Ao Zhi-wen, 1932-
Austin — Coe Finch Austin, 1831-1880
Back — Saara Back
Badhwar — Rattan Lal Badhwar
Bailey, J. W. — John William Bailey, 1870-1933
Baillon — Henri Ernest Baillon, 1827-1895
Bardunov — Leonid Vladimirovich Bardunov, 1932-
Bartlett — John K. Bartlett, 1945-1986
Bartram, E. B. — Edwin Bunting Bartram, 1878-1964

Basinger — James F. Basinger
Basu, N. — Nupur Basu
Bauer, E. — Ernst Bauer, 1860-1942
Baumgartner — Julius Baumgartner, 1870-1955
Bechenau —
Beck, G. R. — Günther Ritter von Mannagetta und Lerchenau Beck, 1856-1931
Beck, L. C. — Lewis Caleb Beck, 1798-1853
Beckett — Thomas W. Naylor Beckett, 1838-1906
Bell, B. G. — Bruce Graham Bell, 1942-
Belland — Réné Jean Belland, 1954-
Ben-Sasson — Rivka Ben-Sasson, 1946-
Berendsen — W. Berendsen
Berggren — Sven Berggren, 1837-1917
Berkeley — Miles Joseph Berkeley, 1803-1889
Berlese — Berlese
Bernhardi — Johann Jakob Bernhardi, 1774-1850
Berthelot — Sabin Berthelot, 1794-1880
Bescherelle — Émile Bescherelle, 1828-1903
Best — George Newton Best, 1846-1926
Binstead — Charles Herbert Binstead, 1862-1941
Bizot — Maurice Bizot, 1905-1979
Blandow — Otto Christian Blandow, 1778-1810
Blockeel — Thomas Leo Blockeel, 1950-
Blytt — Matthias Numsen Blytt, 1789-1862
Bock — Wolfgang von Bock
Boelcke — Osvaldo Boelcke, 1920-
Bomansson — Johan Oskar Bomansson, 1838-1906
Bonner — Charles Edmond Bradlaugh Bonner, 1915-1976
Boros — Adám Boros, 1900-1972
Borszczow, G. — Grigori Grigorievicz Borszczow
Borszczow, I. — Ilya Grigorievicz Borszczow, 1833-1878
Bosch — Roelof Benjamin van den Bosch, 1810-1862
Boswell — Henry Boswell, 1837-1897
Bottini — Antonio Bottini, 1850-1931
Boulay — Nicolas Jean Boulay, 1837-1905
Boulter — Michael Charles Boulter, 1942-
Bowers, F. D. — Frank Dana Bowers, 1936-
Bowers, M. C. — Maynard C. Bowers, 1930-
Braithwaite — Robert Braithwaite, 1824-1917
Brassard — Guy Raymond Brassard, 1943-
Braun, A. — Alexander Carl Heinrich Braun, 1805-1877
Brébisson — Louis Alphonse de Brébisson, 1798-1872
Breidler — Johann Breidler, 1828-1913
Bremer, B. — Birgitta Bremer, 1950-
Bresadola — Bresadola, Giacopo
Bridel — Samuel Elisée de Bridel, 1761-1828

Britton — Elizabeth Gertrude Britton, 1858-1934
Brongniart — Adolphe Theodore Brongniart, 1801-1876
Brooks, D. R. — D. R. Brooks
Brotherus — Viktor Ferdinand Brotherus, 1849-1929
Brown, J. T. — John Thomas Brown, 1941-
Brown, P. D. — P. D. Brown
Brown, R. — Robert Brown, 1773-1858
Brown ter, R. — Robert Brown, 1820-1906
Brown, R. W. — Roland Wilbur Brown, 1893-1961
Bruch — Philipp Bruch, 1781-1847
B.S.G. — see Philipp Bruch, Wilhelm Philipp Schimper, and Wilhelm Theodor Gümbel
Bruehl — Paul Johannes Bruehl, 1855-1935
Bruggeman-Nannenga — Maria Alida Bruggeman-Nannenga, 1944-
Brugués — Montserrat Brugués, 1946-
Brühl — Paul Johannes Brühl, 1855-1935
Brunton — William Brunton, 1775-1806
Bryhn — Niels Bryhn, 1854-1916
Bubani — Pietro Bubani, 1806-1888
Buck — William Russell Buck, 1950-
Buse — Lodewijk Hendrik Buse, 1819-1888
Buysson — Robert du Buysson, 1871-1893
Candolle, A. P. de — Augustin Pyramus de Candolle, 1778-1841
Cao Tong — Cao Tong, 1946-
Cardenás-Soriano — M. Angeles Cardenás-Soriano, 1949-
Cardot — Jules Cardot, 1860-1934
Casas, C. — Creu Casas, 1913-
Cassini — Alexandre Henri Gabriel Cassini, 1781-1832
Castagne — Émile Étienne Édouard Joseph Castagne, 1901-
Castelli — Laurent A. L. Castelli, 1914-
Catcheside — David Guthrie Catcheside, 1907-
Cetin — Barbaros Cetin, 1959-
Chamberlain, D. F. — David Franklin Chamberlain, 1941-
Chang Kung-chu — Chang Kung-chu, 1937-
Chen Pan-chieh — Chen Pan-chieh, 1907-1970
Chiang Tzen-yuh — Chiang Tzen-yuh, 1960-
Chopra, R. S. — Ram Saran Chopra, 1904-
Christophersen — Erling Christophersen, 1898-
Chuang Ching-chang — Chuang Ching-chang, 1931-
Churchill — Steven Paul Churchill, 1948-
Clear — I. D. Clear, ?-ca. 1967
Clemente y Rubio — Simon de Rojas Clemente y Rubio, 1777-1827
Colenso — William Colenso, 1811-1899
Coppey — Amédée Coppey, 1874-1913
Corbière — Francois Marie Louis Corbière, 1850-1941
Corley — Martin Francis Vanner Corley, 1944-

Cortini-Pedrotti — Carmela Cortini-Pedrotti, 1931-
Couderc, J. M. — J. M. Couderc
Crome — Georg Ernst Wilhelm Crome, 1781-1813
Cros, R. M. — R. M. Cros, 1945-
Crosby — Marshall Robert Crosby, 1943-
Crum, H. — Howard Alvin Crum, 1922-
Crundwell — Alan Cyril Crundwell, 1923-
Culmann — Paul Frédéric Culmann, 1860-1936
Czerdantseva — V. Ja. Czerdantseva
Damanhuri — Ahmad Damanhuri
Daniels, R. E. — Roger Edward Daniels, 1943-
De Notaris — Giuseppe De Notaris, 1805-1877
De Wildeman — Emile August De Wildeman, 1866-1947
Deguchi — Hironori Deguchi, 1948-
Delgadillo M. — Claudio Delgadillo Moya, 1945-
Delogne — Charles Henri Delogne, 1834-1901
Demaret — Fernand M. H. Demaret, 1911-
Desplanques — A. Desplanques
Desvaux — Nicaise Augustin Desvaux, 1784-1856
Dickson — James Dickson, 1738-1822
Dijk — D. Eduard van Dijk
Dismier — Gabriel Dismier, 1856-1942
Dixon — Hugh Neville Dixon, 1861-1944
Doignon — Pierre Doignon, 1912-
Douin, C. — Charles Isidore Douin, 1858-1944
Dozy — Frans Dozy, 1807-1856
Drake — William Fitt M Drake, 1786-1874
Drozhastchich — Drozhastchich
Drummond — Thomas Drummond, 1780-1835
Drygalski — Erich Dagobert von Drygalski, 1865-1949
Duarte — P. P. Duarte Bello, 1922-
Dubois — Francois Noel Alexandre Dubois, 1752-1824
Duby — Jean Étienne Duby, 1798-1885
Düll — Ruprecht Peter Georg Düll, 1939-
Düll-Hermanns — I. Düll-Hermanns
Dumortier — Barthélemy Charles Joseph Dumortier, 1797-1878
Klaus von der Dunk — Klaus von der Dunk, 1943-
Kurt von der Dunk — Kurt von der Dunk, 1897-1985
Dupret — François Hippolyte Dupret, 1853-1932
During — Hein Johannes During, 1947-
Dury — Marie-Noëlle Dury, 1933-
Dusén — Per Karl Hjalmar Dusén, 1855-1926
Dyer, R. A. — Robert Allen Dyer, 1900-1987
Eckel — Patricia Eckel, 1950-
Eddy, A. — Alan Eddy, 1937-
Edwards, S. R. — Sean Rowan Edwards, 1943-

Een — Gillis Een, 1924-
Egunyomi — Adeyema Egunyomi, 1944-
Ehrhart — Jakob Friedrich Ehrhart, 1742-1795
Ellis, L. — Len Thomas Ellis, 1955-
Emmons — Ebenezer Emmons, 1799-1863
Endlicher — Stephan Friedrich Ladislaus Endlicher, 1804-1849
Engler — Heinrich Gustav Adolf Engler, 1844-1930
Enroth — Johannes Enroth, 1956-
Escobar A. — M. Escobar A.
Ettingshausen — Constantin von Ettingshausen, 1826-1897
Fagerstén — Rein Rikhard Fagerstén, 1931-
Falter-van den Haak — Liesbeth Falter-van den Haak, 1958-
Fefilova — Likiia Aleksandrovna Fefilova
Fehlner — Karl Fehlner, 1859-1884
Felippone — Florentino Felippone, 1849-1939
Feng Yung-hua — Feng Feng
Fergusson — John Fergusson, 1834-1907
Field — John Horace Field, 1933-
Fife — Allan James Fife, 1951-
Filipello — Sebastiano Filipello, 1892-1936
Filson — Rex Bertram Filson, 1930-
Flatberg — Kjeld Ivar Flatberg, 1943-
Fleischer — Max Fleischer, 1861-1930
Flörke — Heinrich Gustav Flörke, 1764-1835
Florschütz — Peter Arnold Florschütz, 1923-1976
Florschütz-de Waard — Jeanne Florschütz-de Waard, 1924-
Flowers — Seville Flowers, 1900-1968
Frahm — Jan-Peter Frahm, 1945-
Fransen — Sven Goran Fransen, 1949-
Frey, W. — Wolfgang Frey, 1942-
Fries — Elias Magnus Fries, 1794-1878
Friis — Ib Friis, 1945-
Frisvoll — Arne Arnfinn Frisvoll
Fröhlich, J. — Josef Fröhlich, 1891-1966
Funck — Heinrich Christian Funck, 1771-1839
Funk — Vicki Ann Funk, 1947-
Fürnrohr — August Emanuel Fürnrohr, 1804-1861
Gangulee — Hirendra Chandra Gangulee, 1914-
Gao Chien — Gao Chien, 1929-
García — Donato García, 1782-1855
Gardet — G. Gardet
Gärtner, P. G. — Philipp Gottfried Gäertner, 1754-1825
Gauthier-Lievre — Lucienne Emilienne Gauthier-Lievre, 1987-
Gay, C. — Claude Gay, 1800-1873
Geheeb — Adalbert Geheeb, 1842-1909
Gepp — Antony Gepp, 1862-1955

Germeraad —
Gier — Leland Jacob Gier, 1904-1983
Giese — Monika Giese, 1959-
Ginzberger — August Ginzberger, 1873-1940
Givulescu — Razvan Givulescu, 1920-
Gjaerevoll — Olav Gjaerevoll, 1916-
Glime — Janice Mildred Glime, 1941-
Godman — Frederick du Cane Godman, 1834-1919
Goman'kov — A. V. Goman'kov
Goncalves-Carralves — Matilde F. Goncalves-Carralves, 1943-
Gordon-Gray — Kathleen D. Gordon-Gray, 1918-
Gradstein — Stephan Robbert Gradstein, 1943-
Grandidier — Alfred Grandidier, 1836-1921
Granzow-de la Cerda — Inigo Granzow-de la Cerda, 1958-
Gravet — Pierre Joseph Frédéric Gravet, 1827-1907
Gray, A. — Asa Gray, 1810-1888
Gray, S. — Samuel Frederick Gray, 1766-1828
Grebe — Carl Grebe, 1852-1922
Greene, D. M. — Dorothy M. Greene
Greene, S. W. — Stanley Wilson Greene, 1928-1989
Greenwood — William Frederick Neville Greenwood
Greguss — Pál Greguss, 1889-
Greville — Robert Kaye Greville, 1794-1866
Griazeva — A. S. Griazeva
Griffin — Dana Gove Griffin, III, 1938-
Griffith — William Griffith, 1810-1845
Griffiths — David Griffiths, 1867-1935
Grindel — David Hieronymus Grindel, 1776-1836
Grolle — Riclef Grolle, 1934-
Grom — Sezana Grom
Grönvall — Troed Axel Ludwig Grönvall, 1838-1892
Grout — Abel Joel Grout, 1867-1947
Guedes — Manoel Guedes
Guerra — Juan Guerra Montes, 1930-
Gümbel — Wilhelm Theodor Gümbel, 1812-1858
Gunnerus — Johan Ernst Gunnerus, 1718-1773
Gupta, K. M. — K. M. Gupta, 1908-1987
Györffy — István Györffy, 1880-1959
Habeeb — Herbert Habeeb, 1917-
Hadac — Emil Franziskov Lazne Hadac, 1914-
Hagen, I. — Ingebrigt Severin Hagen, 1852-1917
Hakelier — Nils Georg Hakelier
Hammerschmid — Anton Hammerschmid, 1851-1933
Hampe — George Ernst Ludwig Hampe, 1795-1880
Handel-Mazzetti — Heinrich Handel-Mazzetti, 1882-1940
Hara, H. — Hiroshi Hara, 1911-1986

Hartman, C. J. — Carl Johan Hartman, 1790-1849
Harvey — William Henry Harvey, 1811-1866
Hattaway — Robert Aden Hattaway, 1948-
Hattori — Sinske Hattori, 1915-
Hébrard — Jean Pierre Hébrard, 1943-
Hedderson — Terry Albert John Hedderson, 1962-
Hedenäs — Lars Hedenäs, 1955-
Hedin — Sven Anders von Hedin, 1865-1952
Hedwig — Johann Hedwig, 1730-1799
Hedwig, R. A. — Romanus Adolf Hedwig, 1772-1806
Hegewald, E. — Eberhard Heiz Hegewald, 1942-
Hegewald, P. — Pirkko Dagmar Hegewald, 1934-
Henderson, D. M. — Douglas Mackay Henderson, 1927-
Hennings — Paul Christoph Hennings, 1841-1908
Henry, R. — René Henry, 1884-1960
Héribaud — Frère Joseph Héribaud, 1841-1917
Hermann, F. J. — Frederick Joseph Hermann, 1906-1987
Herrnstadt — Ilana Herrnstadt, 1940-
Hervey — Alphaeus Baker Hervey, 1839-1931
Herzog — Theodor Karl Julius Herzog, 1880-1961
Hesselbo — Christen August Hesselbo, 1874-1952
Hessler — Karl Hessler
Heukels — P. Heukels
Hiern — William Philip Hiern, 1839-1925
Higgins — Henry Hugh Higgins, 1814-1893
Higuchi — Masanobu Higuchi, 1955-
Hilferty — Frank Joseph Hilferty, 1920-
Hill, M. O. — Mark Oliver Hill, 1945-
Hilpert — Friedrich Wilhelm Hilpert, 1907-
Himeno — T. Himeno
Hoe — William Joseph Hoe, 1941-
Hoffmann, G. F. — George Franz Hoffmann, 1760-1826
Holler — August Holler, 1835-1904
Hollick — Charles Arthur Hollick, 1857-1933
Holm-Nielsen — Lauritz B. Holm-Nielsen, 1946-
Holmen — Kjeld Axel Holmen, 1921-1974
Holt — George Alfred Holt, 1852-1921
Holzinger — John Michael Holzinger, 1853-1929
Hong — Won Shic Hong, 1919-
Hooker, J. D. — Joseph Dalton Hooker, 1817-1911
Hooker, W. J. — William Jackson Hooker, 1785-1865
Hoppe — David Heinrich Hoppe, 1760-1846
Hopping —
Horikawa — Yoshiwo Horikawa, 1902-1976
Hörmann — Hans Hörmann, 1902-1981
Hornschuch — Christian Friedrich Hornschuch, 1793-1850

Horrell — Ernest Charles Horrell, 1870-1937
Horton, D. G. — Diana Gail Horton, 1949-
Howe, M. A. — Marshall Avery Howe, 1867-1936
Hu Ren-liang — Hu Ren-liang, 1932-
Huard — Jean Huard
Hudson — William Hudson, 1734-1793
Hübener — Johann Wilhelm Peter Hübener, 1807-1847
Hult, R. — Ragnar Hult, 1857-1899
Husnot — Pierre Tranquille Husnot, 1840-1929
Hyvoenen — Jaakko Hyvonen, 1959-
Iishiba — Eikichi Iishiba, 1873-1936
Ingham — William Ingham, 1854-1923
Inoue, H. — Hiroshi Inoue, 1932-1989
Inoue — Satoru Inoue, 1919-
Ireland — Robert Root Ireland, Jr., 1932-
Irmscher — Edgar Irmscher, 1887-1968
Isoviita — Pekka Isoviita, 1931-
Itzigsohn — Ernst Friedrich Hermann Itzigsohn, 1814-1879
Iwasaki — Nizo Iwasaki
Iwatsuki — Zennoske Iwatsuki, 1929-
Jack, J. B. — Joseph Bernhard Jack, 1818-1901
Jaeger — August Jaeger, 1842-1877
James, T. P. — Thomas Potts James, 1803-1882
Jamieson — David W. Jamieson, 1943-
Janssens — Joannes Arnoldus Janssens, 1952-
Janzen — Peter Janzen, 1851-1922
Jardin — Désiré Édélestan Stanislas Aimé Jardin, 1822-1896
Jarvinen — Irma Jarvinen, 1947-
Jedlicka — Josef Jedlicka, 1912-1959
Jennings — Otto Emery Jennings, 1877-1964
Jensen, C. E. O. — Christian Erasmus Otterstrom Jensen, 1859-1941
Jensen, T. — Thomas Jensen, 1824-1877
Jeppesen — Stig Jeppesen, 1943-
Jiménez, J. — José de Jesús Jiménez, 1905-1982
Johnson, A. — Anne Johnson, 1928-
Jones, D. — Daniel Angell Jones, 1861-1936
Jørgensen, E. — Eugen Honoratius Jørgensen, 1862-1938
Jovet-Ast — Suzanne Jovet-Ast, 1914-
Juratzka — Jakob Juratzka, 1821-1878
Kabiersch — Waldefried Kabiersch
Kanda — Hiroshi Kanda, 1946-
Karczmarz — Kazimierz Karczmarz, 1933-
Karsten — Carl Wilhelm Gustav Hermann Karsten, 1817-1908
Karttunen — Krister Karttunen, 1960-
Kaurin — Christian Kaurin, 1831-1898
Keissler — Karl von Keissler, 1872-1965

Kern — Friedrich Kern, 1850-1925
Kiaer — Franz Casper Kiaer, 1835-1893
Kilbertus — Gerard Kilbertus
Kindberg — Nils Conrad Kindberg, 1832-1910
Kira —
Kirchner, W. C. G. — Walter Charles George Kirchner, 1875-
Klinggraeff — H. von Klinggraeff, 1820-1902
Klinggräff — Hugo Erich Meyer von Klinggräff, 1820-1902
Knowlton — Frank Hall Knowlton, 1860-1926
Koch, L. F. — Leo Francis Koch, 1916-
Koponen, A. — Aune Kyllikki Koponen, 1938-
Koponen, T. — Timo Juhani Koponen, 1939-
Korber — Gustav Wilhelm Korber, 1817-1885
Kramer, W. — Wolfgang Anton Kramer, 1947-
Krasilov — Valentin Abramovich Krasilov
Krauss — Christian Ferdinand Fredrich von Krauss, 1812-1890
Kuc — Marian Kuc, 1932-
Kuhnemann — Oscar Kuhnemann, 1911-
Kumar, D. — Dinesh Kumar
Kumar, S. S. — S. S. Kumar, 1936-
Kunth — Karl Sigismund Kunth, 1788-1850
Kuntze — Carl Ernst Otto Kuntze, 1843-1907
Kunze — Gustav Kunze, 1793-1851
Kuo Chen-meng — Kuo Chen-meng, 1948-
Kürschner — Harald Kürschner, 1950-
Kutzing — Friedrich Traugott Kutzing, 1807-1893
Labillardière — Jacques Julien Houtton de Labillardière, 1755-1834
Lacey — William Springthorpe Lacey, 1917-
Lagasca y Segura — Mariano Lagasca y Segura, 1776-1839
Lai Ming-jou — Lai Ming-jou, 1949-
Lamarck — Jean Baptiste Antoine Pierre de Monnet de Lamarck, 1744-1829
Lambinon — Jacques Ernest Joseph Lambinon, 1936-
LaMotte — Robert Smith LaMotte, 1895-
Landrum — Leslie R. Landrum, 1946-
Lange, J. M. — Johan Martin Christian Lange, 1818-1898
Lange, M. — Morten Thomsen Lange, 1824-1875
Latzel — Albert Latzel, 1858-1946
Laurer — Johann Friedrich Laurer, 1798-1873
Lauterbach — Carl Adolf Georg Lauterbach, 1864-1937
Lawton, E. — Elva Lawton, 1896-
Lazarenko — Andrei Sazontovich Lazarenko, 1901-1979
Le Jolis — Auguste Francois Le Jolis, 1823-1904
Lehmann — Johann Georg Christian Lehmann, 1792-1860
Leiner — Ludwig Leiner, 1830-1901
Léman — Dominique Sébastien Léman, 1781-1829
Lemmermann — Ernst Johann Lemmermann, 1867-1915

Lemmon, B. A. E. — Betty Ann Elberson Lemmon, 1925-
Leroy, J. — Jean F. P. Leroy, 1915-
Lesquereux — Charles Leo Lesquereux, 1806-1889
Leviton — Alan E. Leviton
Lewinsky — Jette Lewinsky, 1948-
Lewis, M. A. — Marko Alexander Lewis, 1947-
Li Deng-ke — Li Deng-ke, 1937-
Li Xing-jiang — Li Xing-jiang, 1932-
Li Zhi-hua — Li Zhi-hua, 1935-
Lightowlers — Philip J. Lightowlers, 1953-
Limpricht — Karl Gustav Limpricht, 1834-1902
Lin Pang-juan — Lin Pang-juan, 1936-
Lin Shan-Hsiung — Lin Shan-Hsiung, 1942-
Lindberg, H. — Harald Lindberg, 1871-1963
Lindberg — Sextus Otto Lindberg, 1835-1889
Link — Johann Heinrich Link, 1767-1851
Linnaeus — Carl von Linnaeus, 1707-1778
Lisa — Domenico Lisa, 1801-1867
Lisowski — Stanislaw Lisowski, 1924-
Ljubitskaya — Lydia Ivanovna Ljubitskaya, 1886-
Loeske — Leopold Loeske, 1865-1935
Lojtnant — Bernt Lojtnant, 1946-
Long, D. G. — David Geoffrey Long, 1948-
Lorentz — Paul Günther Lorentz, 1835-1881
Lou Jian-shing — Lou Jian-shing, 1935-
Loureiro — Joao de Loureiro, 1717-1791
Luisier — Alphonse Luisier, 1872-1957
Lund, P. J. — Peter Jorgensen Lund, 1870-1938
Maack — Richard Maack, 1825-1886
Maass — Wolfgang Siegfried Günther Maass, 1929-
Machado Guimaraes — António Luís Machado Guimaraes, 1883-1969
Macoun — John Macoun, 1831-1920
Mägdefrau — Karl Mägdefrau, 1907-
Magill — Robert Earle Magill, 1947-
Mahu — Manuel Mahu, 1930-
Maire — René Charles Joseph Maire, 1878-1949
Malta — Nicolajs Malta, 1890-1944
Manuel — Monte Gregg Manuel, 1947-1981
Margadant — Willem Daniël Margadant, 1916-
Marsh, C. — Cynthia Marsh, 1956-
Mårtensson — Olle Mårtensson, 1915-
Martius, C. — Carl Friedrich Philipp von Martius, 1794-1868
Maschke — Joachim Maschke
Mathieu — Charles Marie Joseph Mathieu, 1791-1873
Matsui — Tohru Matsui, 1963-
Matsumura — Jinzo Matsumura, 1856-1928

Matteri — Celina María Matteri, 1943-
McAdam — S. V. McAdam
McCleary — James A. McCleary, 1917-
McIntosh — Terry T. McIntosh, 1948-
McQueen — Cyrus B. McQueen, 1951-
Medelius — Sigfrid Olof Medelius, 1878-1930
Mejen — S. V. Mejen
Melnichuk — Vsevold Maksimovic Melnichuk
Men Fan-son — Men Fan-son
Menzel — Mario Menzel, 1958-
Menzies — Archibald Menzies, 1754-1842
Merrill, G. L. S. — Gary Lane Smith Merrill, 1939-
Meyer, B. — Bernhard Meyer, 1767-1836
Meylan — Charles Meylan, 1868-1941
Michaux — André Michaux, 1746-1802
Mikutowicz — Johannes Mathias Mikutowicz, 1872-1951
Mildbraed — Gottfried Wilhelm Johannes Mildbraed, 1879-1954
Milde — Carl August Julius Milde, 1824-1871
Miller, H. A. — Harvey Alfred Miller, 1928-
Miller, N. G. — Norton George Miller, 1942-
Mitten — William Mitten, 1819-1906
Mizushima, U. — Urara Mizushima, 1927-
Mogensen — Gert Steen Mogensen, 1944-
Mohamed — H. A. Haji Mohamed, 1948-
Mohr, D. — Daniel Matthias Mohr, 1780-1808
Molendo — Ludwig Molendo, 1833-1902
Molkenboer — Julianus Hendrik Molkenboer, 1816-1854
Möller, H. A. — Hjalmar August Möller, 1866-1941
Møller, S. M. — Sophie Maren Møller, 1840-1920
Mönkemeyer — Wilhelm Mönkemeyer, 1862-1938
Montagne — Jean Pierre François Camille Montagne, 1784-1866
Moore, D. M. - David Morseby Moore, 1933-
Moritzi — Alexander Moritzi, 1806-1850
Mueller, F. A. — Franz August Mueller, 1799-1871
Müller, C. — Carl Müller, 1818-1899
Müller, F. — Ferdinand Heinrich Jacob von Müller, 1825-1896
Müller, H. L. H. — Heinrich Ludwig Hermann Müller, 1829-1883
Muller, J. — Jan Muller
Müller, P. — Petra Müller
Murray, B. M. — Barbara Mitchell Murray, 1938-
Myrin — Claës Gustav Myrin, 1803-1835
Nadeaud — Jean Nadeaud, 1834-1898
Naegeli — Carl Wilhelm von Naegeli, 1817-1891
Nagy — Eszter Nagy
Naveau — Raymond Léonard Naveau, 1889-1932
Necker — Nöel Martin Joseph de Necker, 1730-1793

Nees — Christian Gottfried Daniel Nees von Esenbeck, 1776-1858
Negri — Giovanni Negri, 1877-1960
Neuberg — Mariya Fedorovna Neuberg, 1894-1962
Neumayer — Georg Balthasar von Neumayer, 1826-1909
Newton — Martha Elizabeth Newton, 1941-
Nichols — George Elwood Nichols, 1882-1939
Nieuwland — Julius Arthur Nieuwland, 1878-1936
Ninh — Tran Ninh
Nishimura — Naoki Nishimura, 1951-
Nitschke — Theodor Rudolf Joseph Nitschke, 1834-1883
Noguchi — Akira Noguchi, 1907-1988
Nordenskjold —
Norkett — Alan Henry Norkett, 1915-
Norris — Daniel Howard Norris, 1933-
Norrlin — Johan Petter Norrlin, 1842-1917
De Notaris — Giuseppe De Notaris, 1805-1877
Nowak — Heidemarie Krawietz Nowak, 1944-
Nyholm — Elsa Tufvessen Nyholm, 1911-
Ochi — Harumi Ochi, 1920-
Ochyra — Ryszard Ochyra, 1949-
Oeder — Georg Christian von Oeder, 1728-1791
Okamura, S. — Shûtai Okamura, 1877-1947
Olarinmoye — S. O. Olarinmoye
Oliva — R. Oliva
Onraedt — Maurice Onraedt, 1904-
Orbán — Sandor Orbán, 1947-
Osada — Takemasa Osada, 1912-
Osterald — Karl Osterwald, 1853-1923
Oti — Kazuo Oti, 1908-
Pacey — Jane M. Pacey
Padberg — M. Padberg
Palisot de Beauvois — Ambroise Marie Francois Joseph Palisot de Beauvois, 1752-1820
Pant — Divya Darshan Pant, 1919-
Paris — Jean Édouard Gabriel Narcisse Paris, 1827-1911
Paton — Jean Annette Paton, 1929-
Paul — Hermann Karl Gustav Paul, 1876-1964
Peck — Charles Horton Peck, 1833-1917
Perry — Matthew Calbraith Perry, 1794-1858
Persoon — Christiaan Hendrik Persoon, 1761-1836
Persson — Nathan Petter Herman Persson, 1893-1978
Peterson — Wilbur Louis Peterson, 1944-
Pettet — Antony Pettet
Philibert — Henri Philibert, 1822-1901
Philippi, G. — Georg Philippi, 1936-
Pierrot — Raymond Bernard Pierrot, 1915-

Pilous — Zdenek Pilous, 1912-
Piovano — Giovanni Piovano
Plamada — Emanuel Plamada, 1926-
Pócs — Tamás Pócs, 1933-
Podpera — Josef Podpera, 1878-1954
Pogorevitsch —
Potier de la Varde — Robert André Leopold Potier de la Varde, 1878-1961
Prantl — Karl Anton Eugen Prantl, 1849-1893
Pursell — Ronald Arling Pursell, 1930-
Bachelot de la Pylaie — Auguste Jean Marie Bachelot de la Pylaie, 1786-1856
Quelle — Ferdinand Friedrich Hermann Quelle, 1876-1963
Rabenhorst — Gottlob Ludwig Rabenhorst, 1806-1881
Raddi — Giuseppe Raddi, 1770-1829
Ramsay, H. P. — Helen Patricia Ramsay, 1928-
Rau — Eugene Abraham Rau, 1848-1932
Rechinger — Karl Rechinger, 1867-1952
Redfearn — Paul Leslie Redfearn, Jr., 1926-
Reed, C. F. — Clyde Franklin Reed, 1918-
Reese, W. D. — William Dean Reese, 1928-
Regel — Eduard August von Regel, 1815-1892
Rehmann — Antoni Rehmann, 1840-1917
Reichard — Johann Jacob Reichard, 1743-1782
Reichardt — Heinrich Wilhelm Reichardt, 1835-1885
Reimers — Hermann Johann O. Reimers, 1893-1961
Reinwardt — Caspar George Carl Reinwardt, 1773-1854
Relhan — Richard Relhan, 1754-1823
Renauld — Ferdinand Renauld, 1837-1910
Richard — Louis Claude Richard, 1754-1821
Richards — Paul Westmacott Richards, 1908-
Richter, H. — Hermann Friedrich Eberhard Richter, 1808-1876
Riemann — Bo Riemann, 1946-
Robinson, H. — Harold Ernest Robinson, 1932-
Robison — Coleman R. Robison, 1940-
Rodway — Leonard Rodway, 1853-1936
Röhling — Johann Christoph Röhling, 1757-1813
Rohrer — Joseph Raphael Rohrer, 1954-
Roig, F. — Fidel Antonio Roig
Roivainen — Heikki Roivainen, 1900-1983
Röll — Julius Röll, 1846-1928
Roth, A. — Albrecht Wilhelm Roth, 1757-1834
Roth, G. — Georg Roth, 1842-1915
Roux, J. — Jean Roux, 1876-1939
Rubers — Wilhelmus Vincentius Rubers, 1944-
Rungby — Svend Rungby, 1893-
Russell — John Lewis Russell, 1808-1873
Russow — Edmund August Friedrich Russow, 1841-1897

Ruthe — Johann Gustav Rudolf Ruthe, 1823-1905
Ryan — Elling Ryan, 1849-1905
Rydberg — Per Axel Rydberg, 1860-1931
Saelan — Anders Thiodolf Saelan, 1834-1921
Sainsbury — George Osborne King Sainsbury, 1880-1957
Saito, K. — Kamezo Saito, 1947-
Sakurai — Kyuichi Sakurai, 1889-1963
Sande Lacoste — Cornelius Marinus van der Sande Lacoste, 1815-1887
Sanio — Carl Gustav Sanio, 1832-1891
Sapehin — Andrei Afanasievich Sapehin, 1883-1946
Sappa — Francesco Sappa, 1915-1953
Sarasin — Karl Friedrich Sarasin, 1859-1942
Sarfatti — Giacomini Sarfatti, 1920-1987
Sarmiento — M. N. R. de Sarmiento
Sastré-de Jesús — Ines Sastré-de Jesús, 1955-
Sauer — V. V. Sauer
Sauerbeck — Friedrich Wilhelm Sauerbeck, 1801-1882
Sauter — Anton Eleutherius Sauter, 1800-1881
Savicz-Ljubitskaya — Lydia Ivanovna Savicz-Ljubitskaya, 1886-
Sayre — Geneva Sayre, 1911-
Schaepe — A. Schaepe, 1952-
Schafer-Verwimp — Alfons Schafer-Verwimp, 1950-
Schauer, T. — Thomas Schauer, 1938-
Schelpe — Edmund André Charles Louis Eloi Schelpe, 1924-1985
Scherbius — Johannes Scherbius, 1769-1813
Schiavone — Maria Magdalena Schiavone, 1945-
Schiffner — Victor Felix Schiffner, 1862-1944
Schimper, A. F. W. — Andreas Franz Wilhelm Schimper, 1856-1901
Schimper, W. P. — Wilhelm Philipp Schimper, 1808-1880
Schkuhr — Christian Schkuhr, 1741-1811
Schleicher — Johann Christoph Schleicher, 1768-1834
Schliephacke — Karl Schliephacke, 1834-1913
Schljakov — Roman Nicolayevich Schljakov, 1912-
Schmidt, H. — Hermann Schmidt, 1907-1930
Schofield — Wilfred Borden Schofield, 1927-
Schopf — James William Schopf, 1941-
Schrader — Heinrich Adolph Schrader, 1767-1836
Schrank — Franz Paula von Schrank, 1747-1835
Schreber — Johann Christian Daniel von Schreber, 1739-1810
Schröter, J. — Joseph Schröter, 1837-1894
Schultes — Joseph August Schultes, 1773-1831
Schultz — Carl Friedrich Schultz, 1765-1837
Schultz, F. — Friedrich Wilhelm Schultz, 1804-1876
Schultze-Motel — Wolfram Schultze-Motel, 1934-
Schumacher — Heinrich Cristian Friedrich Schumacher, 1757-1830
Schumacker — Rene Leonard A. Schumacker, 1937-

Schumann — Karl Moritz Schumann, 1851-1904
Schwab — G. Schwab
Schwägrichen — Christian Friedrich Schwägrichen, 1775-1853
Scopoli — Giovanni Antonio Scopoli, 1723-1788
Scott, G. A. M. — George Anderson MacDonald Scott, 1933-
Seemann — Berthold Carl Seemann, 1825-1871
Sehnem — Aloysio Sehnem, 1912-1981
Seki — Tarow Seki, 1934-
Sendtner — Otto Sendtner, 1813-1859
Seppelt — Rodney David Seppelt, 1945-
Sérgio — Cecília Loff Pereira Sérgio, 1942-
Sharp, A. J. — Aaron John Sharp, 1904-
Shaw, A. J. — Arthur Jonathan Shaw
Shaw, J. — John Shaw, 1837-1890
Shin — Toshio Shin, 1917-1982
Showers — David W. Showers
Sikora — Josef Sikora, ?-1837
Sim — Thomas Robertson Sim, 1858-1938
Sipman — Henricus Johannes Maria Sipman, 1945-
Skottsberg — Carl Johan Fredrik Skottsberg, 1880-1963
Sloover — Jean Louis de Sloover, 1932-
Smirnova — Zoya Nikolayevna Smirnova, 1898-1979
Smith, A. J. E. — Anthony John Edwin Smith, 1935-
Smith, D. R. — Douglas Roane Smith, 1930-
Smith, G. L. — Gary Lane Smith, 1939-
Smith — James Edward Smith, 1759-1828
Smoot — Edith L. Smoot
Snider — Jerry Allen Snider, 1937-
Soó — Karoly Rezso Soó von Bere, 1903-1980
Spence — John R. Spence, 1956-
Spindler — M. Spindler
Sprengel — Curt Polycarp Joachim Sprengel, 1766-1833
Spruce — Richard Spruce, 1817-1893
Srebrodol'skaya — I. N. Srebrodol'skaya
Srivastava — Suresh Chandra Srivastava, 1944-
Stapf — Otto Stapf, 1857-1933
Stark — Lloyd Ralph Stark, 1955-
Starke — Johann Christian Starke, 1744-1808
Steere — William Campbell Steere, 1907-1989
Sternberg — Kaspar Maria von Sternberg, 1761-1838
Steudel — Ernst Gottlieb von Steudel, 1783-1856
Stirton — James Stirton, 1833-1917
Stone — Ilma Grace Stone, 1913-
Stoneburner — Ann Hudson Stoneburner, 1947-
Størmer — Per Størmer, 1907-1991
Streimann — Heinar Streimann, 1938-

Sturm — Jacob Sturm, 1771-1848
Sturm, J. W. — Johann Wilhelm Sturm, 1808-1865
Sullivant — William Starling Sullivant, 1803-1873
Suzuki, H. — Hyoji Suzuki, 1915-
Suzuki, Tadashi — Tadashi Suzuki
Swartz — Olof Peter Swartz, 1760-1818
Syed — Hadiuzzaman Syed
Szafran — Bronislaw Szafran, 1897-1968
Szmajda — Piotr Szmajda, 1945-
Takaki — Noriwo Takaki, 1915-
Tan, B. C. — Benito Ching Tan, 1948-
Tan, K. — Kit Tan, 1953-
Taoda — Hiroshi Taoda, 1945-
Taylor, J. — Jane Taylor, 1924-
Taylor, R. J. — Ronald J. Taylor, 1932-
Taylor — Thomas Taylor, 1775-1848
Taylor, T. N. — Thomas N. Taylor, 1937-
Thedenius — Knut Fredrik Thedenius, 1814-1894
Thériot — Marie Hypolite Irénée Thériot, 1859-1947
Thomas, B. A. — Barry A. Thomas, 1940-
Thwaites — George Henry Kendrick Thwaites, 1812-1882
Timm — Joachim Christian Timm, 1734-1805
Tixier — Pierre Tixier, 1918-
Torka — Valentin Torka, 1867-1952
Torrey — John Torrey, 1796-1873
Tosco — Uberto Tosco, 1915-
Touw — Andries Touw, 1935-
Townsend, C. C. — Clifford Charles Townsend, 1926-
Toyama — Reizo Toyama, 1913-1947
Trabut — Louis Charles Trabut, 1853-1929
Tuomikoski — Risto Kalevi Tuomikoski, 1911-1989
Turner — Dawson Turner, 1775-1858
Turton — William Turton, 1762-1835
Udar — Ram Udar, 1926-1985
Umesao —
Urban — Ignatz Urban, 1848-1931
Vaccari — Antonio Vaccari, 1868-
Vana — Jiri Vana, 1940-
Veloira — Nieva E. Veloira
Ventenat — Etienne Pierre Ventenat, 1757-1808
Venturi — Gustavo Venturi, 1830-1898
Verdoorn — Frans Verdoorn, 1906-1984
Viereck — L. A. Viereck, 1930-
Vilhelm — Jan Vilhelm, 1876-1931
Villars — Dominique Villars, 1745-1814
Vital — Daniel M. Vital, 1924-

Vitt — Dale Hadley Vitt, 1944-
Voeltzkow — Alfred Voeltzkow, 1860-1946
Vohra — Jitinder Nath Vohra, 1934-
Voit — Johann Gottlieb Wilhelm Voit, 1776-1813
Vondrácek — Miloslav Vondrácek, 1922-
Wadhwa — B. M. Wadhwa, 1933-
Wager, H. A. — Horace Athelstan Wager, 1876-1951
Wagner, K. A. — Kenneth A. Wagner, 1919-
Wahlenberg — Georg Wahlenberg, 1780-1851
Wallroth — Carl Friedrich Wilhelm Wallroth, 1792-1853
Wan Thung-ling — Wan Thung-ling Wan, 1907-
Wang Chung K'uei — Wang Chung K'uei
Wang Mei-zhi — Wang Mei-zhi, 1948-
Wang You-fang — Wang You-fang, 1953-
Wang-Yang Jen-rong — Wang-Yang Jen-rong, 1939-
Warburg, E. F. — Edmund Frederic Warburg, 1908-1966
Warburg — Otto Warburg, 1859-1938
Warncke — Esbern Warncke, 1939-
Warnstorf — Carl Warnstorf, 1837-1921
Watanabe, R. — Ryozo Watanabe, 1928-
Watson, S. — Sereno Watson, 1826-1892
Watts — William Walter Watts, 1856-1920
Webb — Philip Barker Webb, 1793-1854
Weber — Friedrich Weber, 1781-1823
Weber, W. A. — William Alfred Weber, 1918-
Weimarck — August Henning Weimarck, 1903-1980
Weinmann — Johann Anton Weinmann, 1782-1858
Weiss, F. W. — Friedrich Wilhelm Weiss, 1744-1826
Weitenweber — Wilhelm Rudolf Weitenweber, 1804-1870
Welch, W. H. — Winona Hazel Welch, 1896-1990
Welwitsch — Friedrich Martin Josef Welwitsch, 1806-1872
Wheldon — James Alfred Wheldon, 1862-1924
Whipple — Amiel Weeks Whipple, 1816-1863
Whitehouse, H. — Harold Leslie Keer Whitehouse, 1917-
Whitelegge — Thomas Whitelegge, 1850-1927
Whittier, B. — Barbara Whittier
Whittier, H. O. — Henry O. Whittier, 1937-
Wibel — August Wilhelm Eberhard Christoph Wibel, 1775-1814
Wigh — Kai Eric Göran Wigh, 1941-
Wijk — Roelof van der Wijk, 1895-1981
Wilczek, R. — Rudolf Wilczek, 1903-
Willdenow — Carl Ludwig von Willdenow, 1765-1812
Williams, R. D. — Robert David Williams, 1942-
Williams, R. S. — Robert Statham Williams, 1859-1945
Willis, B. — Barbara Willis
Willis, J. H. — James Hamlyn Willis, 1910-

Wilson, P. — Paul S. Wilson, 1965-
Wilson — William Wilson, 1799-1871
Winter, H. — Hermann Winter, 1845-1933
Winterbottom — J. M. Winterbottom
Withering — William Withering, 1741-1799
Wittlake — Eugene B. Wittlake
Wright — Charles Henry Wright, 1864-1941
Wu Pan-cheng — Wu Pan-cheng, 1935-
Wulfsberg — Nils Gregers Ingvald Wulfsberg, 1847-1888
Wyatt — Robert Edward Wyatt, 1950-
Xiong Ruo-li — Xiong Ruo-li, 1929-1985
Xu Wen-xuan — Xu Wen-xuan, 1919-1985
Yano, K. — Koji Yano, 1912-
Yasuda, A. — Atsushi Yasuda, 1868-1924
Yasuda, M. — M. Yasuda
Zander — Richard Henry Zander, 1941-
Zang Mu — Zang Mu, 1930-
Zanten — Benard Otto van Zanten, 1927-
Zeng Shu-ying — Zeng Shu-ying, 1940-
Zetterstedt, J. E. — Johan Emanuel Zetterstedt, 1828-1880
Zhang Guang-chu — Zhang Guang-chu, 1940-
Zhang Man-xiang — Zhang Man-xiang, 1934-
Zinderen Bakker — Edward Meine van Zinderen Bakker, 1907-
Zmuda — Antoni Jozef Zmuda, 1889-1916
Zodda — Giuseppe Zodda, 1877-1968
Zollinger — Heinrich Zollinger, 1818-1859

Publications Cited in the Index

All the abbreviations of the names of publications from the *Index* appear in the following list, which is arranged strictly alphabetically, that is, diacritical marks were suppressed to alphabetize the list. After each abbreviation, the title is fully spelled out, usually omitting subtitles. After each full title its number from B-P-H or TL-2, if listed in either or both of those publications, is given. An asterisk (*) after a TL-2 number indicates the title is treated under that numbered entry in TL-2, but it is not the main entry. Many of the titles listed as "B-P-H: NEW" will be found in B-P-H/S. Many titles listed as "TL-2: NEW" appeared after 1940, the general cutoff date for inclusion in that magnificent work. A few titles lack diacritical marks, because the fonts available did not include them; we apologize for these unavoidable mistakes.

Aarbok Univ. Bergen, Mat.-Naturvitensk. Ser. — Aarbok for Universitetet i Bergen, Matematisk-Naturvitenskapelig Serie. B-P-H: 25.16.
Abh. K.K. Geol. Reichsanst. — Abhandlungen der Kaiserlich-Königlichen Geologischen Reichanstalt. B-P-H: NEW.
Abh. Königl. Akad. Wiss. Berlin — Abhandlungen der Königlichen Akademie der Wissenschaften in Berlin. B-P-H: 30.02.
Abh. Naturwiss. Vereine Bremen — Abhandlungen herausgegeben vom naturwissenschaftlichen Vereine zu Bremen. B-P-H: 32.21.
Abh. Thüring. Bot. Vereins Irmischia — Abhandlungen des Thüringischen Botanischen Vereins Irmischia. B-P-H: 34.16.
Abstr. Bot. — Abstracta Botanica. Budapest. B-P-H: NEW.
Acta Biol. (Szeged 1955+) — Acta Biologica. B-P-H: 40.14.
Acta Biol. Venez. — Acta Biologica Venezuelica. B-P-H: 41.02.
Acta Bot. Acad. Sci. Hung. — Acta Botanica Academiae Scientiarum Hungaricae. B-P-H: 41.10.
Acta Bot. Bohem. — Acta Botanica Bohemica. B-P-H: 41.12.
Acta Bot. Croat. — Acta Botanica Croatica. B-P-H: 41.13.
Acta Bot. Cub. — Acta Botanica Cubana. B-P-H: NEW.
Acta Bot. Fenn. — Acta Botanica Fennica. B-P-H: 41.14.
Acta Bot. Hung. — Acta Botanica Hungarica. B-P-H: NEW.
Acta Bot. Malacitana — Acta Botanica Malacitana. B-P-H: NEW.
Acta Bot. Neerl. — Acta Botanica Neerlandica. B-P-H: 41.20.
Acta Bot. Venez. — Acta Botanica Venezuelica. B-P-H: 41.25.
Acta Bot. Yunnan. — Acta Botanica Yunnanica. B-P-H: NEW.
Acta Horti Gothob. — Acta Horti Gothoburgensis. B-P-H: 44.03.
Acta Phytotax. Barcinon. — Acta Phytotaxonomica Barcinonensia. B-P-H: NEW.
Acta Phytotax. Geobot. — Acta Phytotaxonomica et Geobotanica. B-P-H: 48.05.
Acta Phytotax. Sin. — Acta Phytotaxonomica Sinica. B-P-H: 48.06.
Acta Soc. Fauna Fl. Fenn. — Acta Societatis pro Fauna et Flora Fennica. B-P-H: 49.09.
Acta Soc. Sci. Fenn. — Acta Societatis Scientiarum Fennicae. B-P-H: 49.22.

Actual. Biol. — Actualidades Biológicas. B-P-H: NEW.
Adnot. Bot. — Adnotationes Botanicae, Swartz, O. P. TL-2: 13537.
Advances Cladistics — Advances in Cladistics. B-P-H: NEW.
Advancing Frontiers Pl. Sci. — Advancing Frontiers of Plant Sciences. B-P-H: 53.12.
Akad. Wiss. Wien Sitzungsber., Math.-Naturwiss. Kl., Abt. 1 — Akademie der Wissenschaften in Wien. Sitzungsberichte. Mathematisch-naturwissenschaftliche Klasse. Abteilung 1. B-P-H: 66.26.
Akad. Wiss. Wien, Math.-Naturwiss. Kl., Denkschr. — Akademie der Wissenschaften in Wien, Mathematisch-Naturwissenschaftliche Klasse, Denkschriften. B-P-H: 66.24.
Allan Hancock Pacific Exped. — Allan Hancock Pacific Expeditions. B-P-H: NEW.
Allg. Bot. Z. Syst. — Allgemeine Botanische Zeitschrift für Systematik, Floristik, Pflanzengeographie. B-P-H: 70.13.
Allionia — Allionia. B-P-H: 73.17.
Amer. J. Bot. — American Journal of Botany. B-P-H: 81.04.
Amer. J. Sci. Arts — American Journal of Science, and Arts. B-P-H: 82.08.
Amer. Midl. Naturalist — American Midland Naturalist. B-P-H: 83.14.
Anales Inst. Patagonia — Anales del Instituto de la Patagonia. B-P-H: NEW.
Anales Jard. Bot. Madrid — Anales del Jardín Botánico de Madrid. B-P-H: 92.09.
Anleit. Kenntn. Gew. — Anleitung zur Kenntniss der Gewächse, Sprengel, K. P. J. TL-2: 12675.
Ann. Bot. (Koenig & Sims) — Annals of Botany. B-P-H: 98.07.
Ann. Bot. (London) — Annals of Botany. B-P-H: 98.09.
Ann. Bot. (Rome) — Annali di Botanica. B-P-H: 98.11.
Ann. Bot. Fenn. — Annales Botanici Fennici. B-P-H: 98.13.
Ann. Bryol. — Annales Bryologici. B-P-H: 99.04.
Ann. Cryptog. Exot. — Annales de Cryptogamie Exotique. B-P-H: 100.12.
Ann. Cryptog. Phytopathol. — Annales Cryptogamici et Phytopathologici. B-P-H: 100.14.
Ann. Hist.-Nat. Mus. Natl. Hung. — Annales Historico-Naturales Musei Nationalis Hungarici. B-P-H: 103.22.
Ann. K.K. Naturhist. Hofmus. — Annales des K. K. Naturhistorischen Hofmuseums. B-P-H: 106.09.
Ann. Lyceum Nat. Hist. New York — Annals of the Lyceum of Natural History of New York. B-P-H: 106.19.
Ann. Mag. Nat. Hist. — Annals and Magazine of Natural History. B-P-H: 106.22.
Ann. Missouri Bot. Gard. — Annals of the Missouri Botanical Garden. B-P-H: 107.17.
Ann. Mus. Bot. Lugduno-Batavum — Annales: Museum Botanicum Lugduno-Batavum. TL-2: 6117. B-P-H: 107.25.
Ann. Natal Mus. — Annals of the Natal Museum. B-P-H: NEW.
Ann. Naturhist. Hofmus. — Annalen des Naturhistorischen Hofmuseums. B-P-H: 108.23.

Ann. Naturhist. Mus. Wien — Annalen des Naturhistorischen Museums in Wien. B-P-H: 108.25.

Ann. Sci. Nat. Bot. — Annales des Sciences Naturelles, Botanique. B-P-H: 113.17.

Ann. Soc. Belge Microscop. — Annales de la Société Belge de Microscopie. B-P-H: 114.24.

Ann. Univ. Mariae Curie-Słodowska, Sect. C, Biol. — Annales Universitatis Mariae Curie-Skłodowska, Sectio C, Biologia. B-P-H: 117.15.

Ann. Wetterauischen Ges. Gesammte Naturk. — Annalen der Wetterauischen Gesellschaft für die gesammte Naturkunde. B-P-H: 118.12.

Anniv. Vol. Bot. Gard. Calcutta — 150th Anniversary Volume, Royal Botanic Garden Calcutta, Biswas, K. P. TL-2: 537.

Annuaire Conserv. Jard. Bot. Genève — Annuaire du Conservatoire du Jardin Botaniques de Genève. B-P-H: 121.14.

Annual Rep. State Bot. — Annual Reports of the State Botanist, Peck, C. H. TL-2: 7595*.

Antarc. Res. Ser., Amer. Geophys. Union — Antarctic Research Series, American Geophysical Union. B-P-H: NEW.

Arch. Bot. Bull. Mens. — Archives de Botanique, Bulletin Mensuel. B-P-H: 139.08.

Arch. Bot. Mém. — Archives de Botanique, Mémoires. B-P-H: 139.10.

Arch. Bot. Sao Paulo — Archivos de Botânica do Sao Paulo. B-P-H: 139.14.

Arch. Esc. Farm. Fac. Ci. Méd. Córdoba — Archivos de la Escuela de Fármacia de la Facultad de Ciencias Médicas de Córdoba. B-P-H: NEW.

Arch. Hydrobiol. Suppl. — Archiv für Hydrobiologie, Supplement-Bande. B-P-H: NEW.

Arch. Naturk. Liv- Ehst- Kurlands, Ser. 2, Biol. Naturk. — Archiv für die Naturkunde Liv-, Ehst- und Kurlands. Serie 2. Biologische Naturkunde. B-P-H: 145.18.

Arch. Soc. Zool. Bot. Fenn. "Vanamo" — Archivum Societatis Zoologicae Botanicae Fennicae "Vanamo". B-P-H: 149.18.

Arch. Vereins Freunde Naturgesch. Mecklenburg — Archiv des Vereins der Freunde der Naturgeschichte in Mecklenburg. B-P-H: 150.12.

Ark. Bot. — Arkiv för Botanik utgivet av K. Svenska Vetenskapsakademien. B-P-H: 153.05.

Atti Accad. Sci. Siena — Atti dell'Accademia delle Scienze di Siena. B-P-H: 158.19.

Atti R. Univ. Genova — Atti della R. Università Genova. B-P-H: NEW.

Atti Soc. Tosc. Sci. Nat. Pisa Mem. — Atti della Società Toscana de Scienze Naturali di Pisa, Memorie. B-P-H: 162.01.

Auckland Bot. Soc. Bull. — Auckland Botanical Society Bulletin. B-P-H: NEW.

Baier. Fl. — Baiersche Flora, Schrank, F. P. TL-2: 11107.

Beih. Bot. Centralbl. — Beihefte zum Botanischen Centralblatt. B-P-H: 169.09.

Beih. Nova Hedwigia — Beihefte zur Nova Hedwigia. B-P-H: 169.13.

Beitr. Gesammten Natur- Heilwiss. — Beiträge zur Gesammten Natur- und Heil-Wissenschaft. B-P-H: 170.06.

Beitr. Naturk. — Beiträge zur Naturkunde, Weber, F. & D. M. H. Mohr. TL-2: 16898.

Bekn. Fl. Ned. Blad. & Leverm. — Beknopte Flora van Nederlandse Blad en Levermossen, Margadant, W. D. & H. During. TL-2: NEW.

Ber. Naturhist. Vereins Augsburg — Bericht des naturhistorischen Vereins in Augsburg. B-P-H: 176.20.

Ber. Schweiz. Bot. Ges. — Berichte der Schweizerischen Botanischen Gesellschaft. B-P-H: 179.06.

Ber. Thätigk. St. Gallischen Naturwiss. Ges. — Bericht über die Thätigkeit der St. Gallischen Naturwissenschaftlichen Gesellschaft. B-P-H: 180.05. The alternate pagination that we cite for Jaeger and Sauerbeck'a Genera et Species Muscorum, which first appeared in this journal, is from the 1978 fascimile edition; see TL-2 3263.

Bernice P. Bishop Mus. Bull. — Bernice P. Bishop Museum Bulletin. B-P-H: 184.06.

Biblioth. Bot. — Bibliotheca Botanica. B-P-H: 189.01.

Bidrag Kännedomen Nord. Orthotrichum & Ulota — Bidrag Kännedomen om de Nordiska Arterna of de Båda Lömossslägtena Orthotrichum och Ulota, Grönvall, A. L. TL-2: NEW.

Bih. Kongl. Svenksa Vetensk.-Akad. Handl. — Bihang til Kongliga Svenska Vetenskaps-Akademiens Handlingar. B-P-H: 191.14.

Biol. Bull. Dept. Biol. Coll. Sci. Tunghai Univ. — Biological Bulletin, Department of Biology, College of Science, Tunghai University. B-P-H: 193.09.

Biol. Inst. Catholic Med. Coll., Seoul — B-P-H: NEW.

Bjull. Sovetsk. Antark. Eksped. — Bjulleten' Sovetskoj Antarkticeskoj Ekspedicii. B-P-H: NEW.

Blumea — Blumea. B-P-H: 200.15.

Bol. Soc. Argent. Bot. — Boletín de la Sociedad Argentina de Botánica. B-P-H: 210.20.

Bol. Soc. Brot. — Boletim da Sociedade Broteriana. B-P-H: 211.01.

Bol. Soc. Portug. Ci. Nat. — Boletim da Sociedade Portuguesa de Ciencias Naturais. B-P-H: 212.08.

Bol. Soc. Venez. Ci. Nat. — Boletín de la Sociedad Venezolana de Ciencias Naturales. B-P-H: 212.11.

Boll. Soc. Bot. Ital. — Bolletino della Società Botanica Italiana. B-P-H: 214.31.

Bonplandia (Hanover) — Bonplandia. B-P-H: 217.02.

Bot. Bull. Acad. Sin. — Botanical Bulletin of Academia Sinica. B-P-H: 219.09.

Bot. Centralbl. — Botanisches Centralblatt. B-P-H: 219.19.

Bot. Gaz. (Crawfordsville) — Botanical Gazette. B-P-H: 220.08.

Bot. Iceland — The Botany of Iceland, Rosenvinge, L. K. TL-2: 9548.

Bot. Jahrb. Syst. — Botanische Jahrbücher für Systematik, Pflanzengeschichte und Pflanzengeographie. B-P-H: 220.20.

Bot. Közelem. — Botanikae Közlemények. B-P-H: 221.04.

Bot. Mag. (Tokyo) — Botanical Magazine. B-P-H: 221.17.

Bot. Mater. Inst. Sporov. Rast. Glavn. Bot. Sada RSFSR — Botanicheskie Materialy Instituta Sporovyh Rastenij Glavnogo Botanicheskogo Sada RSFSR. B-P-H: 222.13.

Bot. Mater. Otd. Sporov. Rast. — Botanicheskie Materialy Otdela Sprorvyh Rastenij. B-P-H: 222.15.

Bot. Mater. Otd. Sporov. Rast. Bot. Inst. Komarova Akad Nauk SSSR — Botanicheskie Materialy Otdela Sporovyh Rastenij Botanicheskogo Instituta Imeni V. L. Komarova Akademii Nauk SSSR. B-P-H: 223.01.

Bot. Not. — Botaniska Notiser. B-P-H: 224.02.

Bot. Taschenb. — Botanisches Taschenbuch für Liv-, Cur- und Ehstland, Grindel, D. H. TL-2: NEW.

Bot. Taschenb. — Botanisches Taschenbuch, Hoppe, D. H. TL-2: 3033.

Bot. Tidsskr. — Botanisk Tidsskrift. B-P-H: 225.11.

Bot. Voy. Herald — The Botany of the Voyage of H.M.S. Herald, Seemann, B. TL-2: 11601.

Bot. Zeitung (Berlin) — Botanische Zeitung. B-P-H: 225.20.

Bot. Zeitung (Regensburg) — Botanische Zeitung, Hoppe, D. H. TL-2: 1278. B-P-H: 225.21.

Bot. Zhurn. (Kiev) — Botanichnyj Zhurnal, Kiev. B-P-H: 226.09.

Bot. Zhurn. (Moscow & Leningrad) — Botaniceskij Zhurnal (Moscow & Leningrad). B-P-H: 226.10.

Botany Fortieth Parallel — United States Geological Expolration [sic] of the Fortieth Parallel. Botany, Watson, S. TL-2: 16812.

Brenesia — Brenesia. B-P-H: NEW.

Brit. Antarc. Surv. Sci. Rep. — British Antarctic Survey Scientific Reports. B-P-H: NEW.

Brit. Antarct. Surv. Bull. — British Antarctic Survey Bulletin. B-P-H: NEW.

Brit. Moss Fl. — The British Moss-flora, Braithwaite, R. TL-2: 700.

Brittonia — Brittonia. B-P-H: 230.01.

Bróteria, Sér. Bot. — Bróteria, Série Botanica. B-P-H: 230.13.

Bryofl. Xizang — Bryoflora of Xizang, Li Xing-jiang, Zang Mu & Zeng Shu-ying. TL-2: NEW.

Bryol. Beitr. — Bryologische Beitraege. B-P-H: NEW.

Bryol. Brit. — Bryologia Britannicae, Wilson, W. TL-2: 17907.

Bryol. Eur. — Bryologia Europaea, Bruch, P., W. P. Schimper & W. T. von Gümbel. TL-2: 844. The continuous pagination that we cite for this publication is from the 1971 facsimile edition.

Bryol. Germ. — Bryologia Germanica, Nees von Esenbeck, C. G. D. TL-2: 6682.

Bryol. Jav. — Bryologia Javanica, Dozy, F. & J. H. Molkenboer. TL-2: 1512.

Bryol. Siles. — Bryologia Silesiaca, Milde, C. A. J. TL-2: 6025.

Bryol. Univ. — Bryologia Universa, Bridel, S. E. TL-2: 757.

Bryol. Z. — Bryologische Zeitschrift. B-P-H: 230.29.

Bryologist — The Bryologist. B-P-H: 230.30.

Bryoph. Arduenn. Exsic. — Bryophyta Arduennae Exsiccatae, Verdoorn, F. TL-2: NEW.

Bryoph. Biblioth. — Bryophytorum Bibliotheca. B-P-H: NEW.

Bryoth. Balt. — Bryotheca Baltcia, Sammlung Ostbaltischer Moose, Mikutowicz, J. M. TL-2: NEW.

Bryoth. Eur. — Bryotheca Europaea, Rabenhorst, G. L. TL-2: NEW.

Bryum Gen. Monogr. Prodr. — Bryum Generis Monographiae Prodromus, Podpera, J. TL-2: NEW.

Bul. Grad. Bot. Univ. Cluj — Buletinul Gradinii Botanice si al Muzeului Botanic dela Universitatea din Cluj. B-P-H: 232.06.

Bull. Acad. Int. Géogr. Bot. — Bulletin de l'Académie Internationale de Géographie Botanique. B-P-H: 234.31.

Bull. Bot. Lab. North-E. Forest. Inst. — Bulletin of Botanical Laboratory of North-Eastern Forestry Institute. B-P-H: NEW.

Bull. Bot. Res. (Harbin) — Bulletin of Botanical Research (Harbin). B-P-H: NEW.

Bull. Bot. Soc. Bengal — Bulletin of the Botanical Society of Bengal. B-P-H: 242.19.

Bull. Bot. Soc. Univ. Saugar — Bulletin of the Botanical Society of the University of Saugar. B-P-H: NEW.

Bull. Bot. Surv. India — Bulletin of the Botanical Survey of India. B-P-H: 242.20.

Bull. Brit. Mus. (Nat. Hist.), Bot. — Bulletin of the British Museum (Natural History), Botany. B-P-H: 242.28.

Bull. Herb. Boissier — Bulletin de l'Herbier Boissier. B-P-H: 253.06.

Bull. Inst. Franç. Afrique Noire — Bulletin de l'Institut Française d'Afrique Noire. B-P-H: 256.03.

Bull. Inst. Jamaica, Sci. Ser. — Bulletin of the Institute of Jamaica, Science Series. B-P-H: 256.05.

Bull. Jard. Bot. État — Bulletin du Jardin Botanique de l'État. B-P-H: 258.20.

Bull. Jard. Bot. Natl. Belgique — Bulletin du Jardin Botanique National de Belgique. B-P-H: NEW.

Bull. Mens. Soc. Linn. Soc. Bot. Lyon — Bulletin Mensuel de la Société Linnéenne et des Sociétés Botanique de Lyon, d'Anthropologie et de Biologie de Lyon réunies. B-P-H: 262.19.

Bull. Misc. Inform. — Bulletin of Miscellaneous Information. B-P-H: 263.12.

Bull. Murith. Soc. Valais. Sci. Nat. — Bulletin de la Murithienne, Société Valaisanne des Sciences Naturelles. B-P-H: 264.10.

Bull. Mus. Hist. Nat. (Paris) — Bulletin du Muséum d'Histoire Naturelle. B-P-H: 264.14.

Bull. Natl. Mus. Canada — Bulletin of the National Museum of Canada. B-P-H: 265.27.

Bull. Natl. Sci. Mus. — Bulletin of the National Science Museum. B-P-H: 266.02.

Bull. Natl. Sci. Mus., Ser. B, Bot. — Bulletin of the National Science Museum, Series B, Botany. B-P-H: NEW.

Bull. New York Bot. Gard. — Bulletin of the New York Botanical Garden. B-P-H: 267.03.

Bull. Soc. Amis Sci. Lett. Poznan, Sér. D, Sci. Biol. — Bulletin de la Société des Amis des Sciences et des Lettres de Poznan, Série D, Sciences Biologiques. B-P-H: NEW.

Bull. Soc. Bot. France — Bulletin de la Société Botanique de France. B-P-H: 275.24.

Bull. Soc. Bot. Genève — Bulletin de la Société Botanique de Genève. B-P-H: 275.26.

Bull. Soc. Hist. Nat. Afrique N. — Bulletin de la Société d'Histoire Naturelle de l'Afrique du Nord. B-P-H: 277.17.

Bull. Soc. Imp. Naturalistes Moscou — Bulletin de la Société Impériale des Naturalistes de Moscou. B-P-H: 278.10.

Bull. Soc. Roy. Bot. Belgique — Bulletin de la Société Botanique de Belgique. B-P-H: 280.26.

Bull. Soc. Sci. Nancy — Bulletin de la Société des Sciences de Nancy. B-P-H: 281.15.

Bull. Soc. Vaud. Sci. Nat. — Bulletin de la Société Vaudoise des Sciences Naturelles. B-P-H: 282.19.

Bull. Torrey Bot. Club — Bulletin of the Torrey Botanical Club. B-P-H: 284.15.

Bull. Univ. Mus. Univ. Tokyo — Bulletin of the Uninversity Museum, University of Tokyo. B-P-H: NEW.

Calcutta J. Nat. Hist. — Calcutta Journal of Natural History and Miscellany of the Arts and Sciences in India. B-P-H: 292.27.

Canad. Field-Naturalist — Canadian Field-Naturalist. B-P-H: 295.31.

Canad. J. Bot. — Canadian Journal of Botany. B-P-H: 296.13.

Canad. J. Earth Sci. — Canadian Journal of Earth Sciences. B-P-H: NEW.

Canad. Rec. Sci. — Canadian Record of Science. B-P-H: 297.24.

Candollea — Candollea. B-P-H: 298.08.

Cape Monthly Mag. — Cape Monthly Magazine. B-P-H: NEW.

Cat. Afr. Pl. — Catalogue of the African Plants collected by Dr. F. Welwitsch in 1853-61, Hiern, W. P. TL-2: 2747.

Cat. Canad. Pl., Musci — Catalogue of Canadian Plants, Part VI, Musci, Macoun, J. & N. C. Kindberg. TL-2: 5201.

Cat. Cenozoic Pl. N. Amer. — Catalogue of the Cenozoic Plants of North America, LaMotte, R. S. TL-2: NEW.

Cat. Moss. Japan — Iisiba, E. TL-2: NEW.

Cat. Mous. Algérie — Catalogue des Mousses observées en Algérie, Bescherelle, E. TL-2: NEW.

Cat. Musc. — Catalogus Muscorum, Spruce, R. TL-2: 12708.

Cat. N. Amer. Musc. — Catalogue of North American Musci, Rau, E. A. & A. B. Hervey. TL-2: 8650.

Ceylon J. Sci. — Ceylon Journal of Science. B-P-H: NEW.

Coll. Nom. Broth. — Collatio Numinum Brotherianorum, Paris, E. G. TL-2: 7331.

Compt. Rend. Hebd. Séances Acad. Sci. — Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences. B-P-H: 322.04.

Congr. Geol. Int., Secc. VII, Paleontol., Taxon., Evol. — Congreso Geológico International, Sección VII, Paleontología, Taxonomía y Evolución, Anonymous. TL-2: NEW.

Consp. Musc. Eur. — Conspectus Muscorum Europaeorum, Podpera, J. TL-2: NEW.

Contr. Bolus Herb. — Contributions from the Bolus Herbarium. B-P-H: NEW.

Contr. Fl. Bryol. Uruguay — Contribution à la Flore Bryologique de l'Uruguay, Felippone, F. TL-2: NEW.

Contr. Fl. Crypt. As. [Acta Soc. Sci. Fenn. 10:] — Contributio ad Floram Cryptogamam Asiae Boreali-Orientalis, Lindberg, S. O. TL-2: 4595. We cite both the preprint and the journal version, since the pagination was not changed.

Contr. Lab. Bot. Univ. Montréal — Contributions de Laboratoire de Botanique de l'Université de Montréal. B-P-H: 329.09.

Contr. U.S. Natl. Herb. — Contributions from the U. S. National Herbarium. B-P-H: 331.05.

Contr. Univ. Michigan Herb. — Contributions from the University of Michigan Herbarium. B-P-H: 331.04.

Coroll. Bryol. Eur. — Corollarium Bryologiae Europaeae, Schimper, W. P. TL-2: 10682.

Coroll. Fl. Upsal. — Corollarium Florae Upsaliensis, Myrin, C. G. TL-2: 6598.

Cronac. Briol. Ital. — De Notaris, G. TL-2: NEW.

Cryptog. Bryol. Lichénol. — Cryptogamie, Bryologie et Lichénologie. B-P-H: NEW.

Curr. Sci. — Current Science (Bangalore). B-P-H: 336.21.

Danmarks Mosser — Danmarks Mosser, Jensen, C. E. O. TL-2: 3336.

Darwiniana — Darwiniana. B-P-H: 338.28.

De Timmia — De Timmia, Muscorum Frondosorum Genere, Hessler, K. TL-2: 2715.

Denkschr. Bayer. Bot. Ges. Regensburg — Denkschriften der Bayer. Botanischen Gesellschaft in Regensburg. B-P-H: 341.05.

Denkschr. Kaiserl. Akad. Wiss., Math.- Naturwiss. Kl. — Denkschriften der Kaiserlichen Akademie der Wissenschaften. Mathematisch-naturwissenschaftliche Klasse. B-P-H: 341.09.

Deut. Südpolar-Exped. 1901-1903 — Deutsche Südpolar-Expedition 1901-1903, Drygalski, E. v. TL-2: NEW.

Deutsche Bot. Monatsschr. — Deutsche Botanische Monatsschrift. B-P-H: 345.16.

Deutschl. Fl. (ed. 2), Kryptog. Gew. — Deutschlands Flora, zweite Ausgabe, Kryptogamische Gewächse, Röhling, J. C. TL-2: 9377*.

Deutschl. Fl., Abt. II, Cryptog. — Deutschlands Flora, Abtheilung II, Cryptogamie, Sturm, J. TL-2: 13335*.

Deutschl. Krypt. Ges. — Deutschland's kryptogamische Gewächse, Schkuhr, C. TL-2: 10731.

Deutschl. Krypt.-Fl. — Deutschlands Kryptogamen-Flora, Rabenhorst, G. L. TL-2: 8434.

Diagn. Esp. Var. Nouv. Mouss. 8 — Diagnones d'Espèces et de Variétés Nouvelles de Mousses, 8e Article, Cardot, J. & I. Thériot. TL-2: 14111*.

Dict. Sci. Nat. (ed. 2) — Dictionnaire des Sciences Naturelles, Cuvier, G.-F. d. F. TL-2: 1293*.

Dopov. Akad. Nauk Ukrajins'k. RSR — Dopovidi Akamemiji Nauk Ukrajinsk'koji RSR. B-P-H: 350.12.

Edinburgh J. Sci. — Edinburgh Journal of Science. B-P-H: 354.32.

Egri Ho Si Minh Tanárképzö Föiskola Füzetei — Az Egri Ho Si Minh Tanárképzö Föiskola Füzetei. B-P-H: NEW.

Elenc. Musch. — Elenco dei Muschi, Lisa, D. TL-2: 4869.

Engl. Bot. — English Botany, Smith, J. E. TL-2: 12221.

Enum. Bryin. Exot. — Enumeratio Bryinearum Exoticarum, Kindberg, N. C. TL-2: 3649.

Énum. Pl. Tahiti — Énumération des Plantes Indigènes de l'Ile de Tahiti, Nadeaud, J. TL-2: 6603.

Epil. Briol. Ital. [Atti. R. Univ. Genova 1:] — Epilogo della Briologia Italiana, De Notaris, G. TL-2: 1387.

Erb. Crittog. Ital. — Erbario Crittogamico Italiano, Anzi, M. et al. TL-2: NEW.

Ergebn. Stauferland-Exped. — Ergebnisse der Stauferland-Expedition 1959/60, Brudel, J. & A. Wirthmann. TL-2: NEW.

Erythea — Erythea. B-P-H: 362.17.

Étude Gen. Amblystegium — Étude sur les Caractères du Genre Amblystegium et Description des Espèces, Buysson, R. du. TL-2: NEW.

Eur. Laubm. — Die europäischen Laubmoose, Roth, G. TL-2: 9641.

Eur. N. Amer. Bryin. — European and N. American Bryineae, Kindberg, N. C. TL-2: 3652.

Eur. Torfm. — Die europäischen Torfmoose, Roth, G. TL-2: 9642.

Expl. Railroad Mississippi Pacific, Decr. Moss. Liverw. — Exploration and Surveys for a Railroad Route from the Mississippi River to the Pacific Ocean, Description of the Mosses and Liverworts, Sullivant, W. S. TL-2: 13405.

Explor. Parc Natl. Albert, Mission Lebrun — Exploration du Parc National Albert, Mission J. Lebrun (1937-1938), Anonymous. TL-2: NEW.

Farlowia — Farlowia. B-P-H: 367.07.

Fasc. Pl. Crypt. Brit. — Fasciculus Plantarum Cryptogamicarum Britanniae, Dickson, J. TL-2: 1442.

Fed. Mus. J. — Federation Museums Journal. B-P-H: NEW.

Feddes Repert. — Feddes Repertorium. B-P-H: 368.30.

Feddes Repert. Spec. Nov. Regni Veg. — Feddes Repertorium Specierum Novarum Regni Vegetabilis. B-P-H: 369.02.

Festskr. Bot. Foren. Kjøbenhavn — Festskrift, udgivet af den Botaniske Forening i Kjøbenhavn, Anonymous. TL-2: NEW.

Field Mus. Nat. Hist., Bot. Ser. — Field Museum of Natural History, Botanical Series. B-P-H: 370.21.

Fieldiana, Bot., n.s. — Fieldiana: Botany, new series. B-P-H: NEW.

Fl. Antarct. — Flora Antarctica, Hooker, J. D. TL-2: 2964.

Fl. Bor.-Amer. — Flora Boreali-Americana, Michaux, A. TL-2: 5958.

Fl. Bor.-Amer. — Flora Boreali-Americana, Hooker, W. J. TL-2: 3003.

Fl. Bras. — Flora Brasiliensis, Martius, C. F. P. von. TL-2: 5538.

Fl. Cantab. (ed. 2) — Flora Cantabrigensis, editio altera, Relhan, R. TL-2: 8973*.

Fl. Carniol. (ed. 2) — Flora Carniolica, editio secunda, Scopoli, J. A. TL-2: 11546*.

Fl. Chil. — Flora Chilena, Gay, C. TL-2: 1975.

Fl. Criptog. Tierra del Fuego — Flora Criptogámica de Tierra del Fuego, Guarrera, S. A., I. Gamundi de Amos & D. Rabinovich de Halperin, editors. TL-2: NEW.

Fl. Crypt. Est, Muscin. — Flore Cryptogamique de l'Est, Muscinées, Boulay, A. J. N. TL-2: 685.

Fl. Crypt. Germ. — Flora Cryptogamica Germaniae, Wallroth, C. F. W. TL-2: 16600.

Fl. CSSR, C, Bryol. — Flora CSSR, C, Rada Bryologická, Pilat, A. (editor). TL-2: NEW.

Fl. E. Himalaya — Flora of Eastern Himalaya, Hara, H. TL-2: NEW.

Fl. Edin. — Flora Edinensis, Greville, R. K. TL-2: 2161.

Fl. Franç. — Flore Française, Candolle, A. P. de. TL-2: 987.

Fl. Gén. Belgique, Bryoph. — Flore Générale de Belgique, Bryophytes, Demaret, F. & E. Castagne. TL-2: NEW.

Fl. Lapp. — Flora Lapponica, Linnaeus, C. TL-2: 4717.

Fl. Mouss. Suisse — Flore des Mousses de la Suisse, Amann, J. & C. Meylan. TL-2: NEW.

Fl. Musc. Chin. Boreali-Orient. — Flora Muscorum Chinae Boreali-Orientalis, Anonymous. TL-2: NEW.

Fl. Neotrop. — Flora Neotropica. B-P-H: NEW.

Fl. Nov.-Zel. — Flora Novae-Zelandiae, Hooker, J. D. TL-2: 2964*.

Fl. S. Africa, Bryophyta — Flora of Southern Africa, Bryophyta, Magill, R. E. TL-2: NEW.

Fl. Schutzgeb. Südsee — Die Flora der deutschen Schutzgebiete in der Südsee, Lauterbach, C. A. G. & K. M. Schumann. TL-2: 4239.

Fl. Suec. (ed. 2) — Flora Suecica, editio secunda, Linnaeus, C. TL-2: 4731*.

Fl. Suriname — Flora of Suriname, Pulle, A. A. TL-2: 8393.

Fl. Tasman. — Flora Tasmaniae, Hooker, J. D. TL-2: 2964*.

Fl. Vit. — Flora Vitiensis, Seemann, B. TL-2: 11613.

Flora — Flora. B-P-H: 373.28.

Florida Sci. — Florida Scientist. B-P-H: NEW.

Förteckn. Skand. Växt., Moss. (ed. 2) — Förteckning över Skandinaviens Växter. 2. Mossor, Weimarck, A. H. TL-2: 17011.

Fol. Hist. Nat. Mus. Matr. — Folia Historico-Naturalia Musei Matraensis. B-P-H: NEW.

Folia Cryptog. — Folia Cryptogamica. B-P-H: 377.35.

Forh. Vidensk.-Selsk. Christiania — Forhandlinger i Videnskabs-Selskabet i Christiania. B-P-H: NEW.

Forschungsr. Gazelle — Die Forschungsreise S.M.S. "Gazelle," IV. Teil. Botanik, Engler, H. G. A. TL-2: 1705.

Frag. Suppl. — Fragmenta Phytographiae Australiae, Supplementum ad Volumen Undecimum, Müller, F. J. H. von. TL-2: 6397*.

Fragm. Florist. Geobot. — Fragmenta Floristica et Geobotanica. B-P-H: 384.03.

Fund. Hist. Nat. Musc. Frond. — Fundamentum Historiae Naturalis Muscorum Frondosorum, Hedwig, J. TL-2: 2525.

Gard. Bull. Singapore — Gardens' Bulletin Singapore. B-P-H: 389.03. B-P-H treats this as a synonym of the next entry, but we treat them separately, because of the drastic change in the title.

Gard. Bull. Straits Settlem. — Gardens' Bulletin. B-P-H: 389.05.

Gen. Eur. N.- Amer. Bryin. — Genera of European and North American Bryineae (Mosses), Kindberg, N. C. TL-2: 3651.

Gen. Musc. Frond. — Genera Muscorum Frondosorum, Müller, C. A. E. TL-2: 6519.

Gen. Musc. Sin. — Genera Muscorum Sinicorum, Chen Pan-chieh. TL-2: NEW.

Gen. Pl. — Genera Plantarum, Bentham, G. & J. D. Hooker. TL-2: 429.

Gen. Syst. Nat. — A General System of Nature, Turton, W. TL-2: 15396.

Geol. Polez. Isokop. Sevoro-Vostoka Evrop. Chasti SSSR — Geologija i Poleznye Isokopaemye Sevoro-Vostoka Evropejskoj Chasti SSSR, Anonymous. TL-2: NEW.

Geol. Surv. Prof. Pap. — Geological Survey Professional Papers. B-P-H: NEW.

Gloss. Terms Names Bryoph. — A Glossary of Terms and Names of Bryophytes, Wu Pan-cheng, Lou Jian-shing & Wang Mei-zhi. TL-2: NEW.

Gunneria — Gunneria. B-P-H: NEW.

Handb. Brit. Mosses — Handbook of British Mosses, Berkeley, M. J. TL-2: 464.

Handb. Eur. Sphagna — Handbook of European Sphagna, Daniels, R. E. & A. Eddy. TL-2: NEW.

Handb. Malesian Mosses — A Handbook of Malesian Mosses, Eddy, A. TL-2: NEW.

Handb. N. Zeal. Fl. — Handbook of the New Zealand Flora, Hooker, J. D. TL-2: 2978.

Handb. Skand. Fl. (ed. 3) — Handbok i Skandinaviens Flora, tredje upplagan, Hartman, C. J. TL-2: 2426*.

Handb. Skand. Fl. (ed. 4) — Handbok i Skandinaviens Flora, fjerde upplagan, Hartman, C. J. TL-2: 2426*.

Handb. Skand. Fl. (ed. 5) — Handbok i Skandinaviens Flora, femte upplagan, Hartman, C. J. TL-2: 2426*.

Handb. Skand. Fl. (ed. 6) — Handbok i Skandinaviens Flora, sjette upplagan, Hartman, C. J. TL-2: 2426*.

Handb. Skand. Fl. (ed. 8) — Handbok i Skandinaviens Flora, åttonde upplagan, Hartman, C. J. TL-2: 2426*.

Handb. Skand. Fl. (ed. 10) — Handbok i Skandinviens Flora, tionde upplagan, Hartman, C. J. TL-2: 2426*.

Hedwigia — Hedwigia. B-P-H: 413.25.

Hepaticol. Germ. — Hepaticologia Germanica, Hübener, J. W. P. TL-2: 3121.

Herzogia — Herzogia. B-P-H: NEW.

Hikobia — Hikobia. B-P-H: 416.06.

Hist. Nat. Iles Canaries — Histoire Naturelle des Iles Canaries, Webb, P. B. et al. TL-2: 16863.

Hist. Phys. Madagascar, Mousses — Histoire Physique, Naturelle et Politique de Madagascar, Mousses, Renauld, F. & J. Cardot. TL-2: 8995.

Hist. Vég. Foss. — Histoire des Végétaux Fossiles, Brongniart, A. T. TL-2: 800.

Höh. Crypt. Preuss. — Die höheren Cryptogamen Preussens, Klinggraff, H. E. M. von. TL-2: 3726.

Hong Kong Naturalist, Suppl. — Honk Kong Naturalist, Supplement. B-P-H: 420.08.

Hooker's J. Bot. Kew Gard. Misc. — Hooker's Journal of Botany and Kew Garden Miscellany. B-P-H: 420.27.

Horae Phys. Berol. — Horae Physicae Berolinenses, Nees von Esenbeck, C. G. D. TL-2: 6680.

Icon. Musc. — Icones Muscorum, Hampe, G. E. L. TL-2: 2347.

Icon. Musc. Suppl. — Icones Muscorum Supplementum, Sullivant, W. S. TL-2: 13409*.

Icon. Pl. — Icones Plantarum, Hooker, J. D. TL-2: 3006. B-P-H: 425.32.

Icon. Pl. Koisik. — Icones Plantarum Koisikavenses, Matsumura, J. TL-2: 5679.

Icon. Pl. Rar. — Icones Plantarum Rariorum, Jacquin, N. J. TL-2: 3251.

Ill. Fl. Nord. Mosses — Illustrated Flora of Nordic Mosses, Nyholm, E. TL-2: NEW.

Ill. Moss Fl. Fennoscandia. II. Musci — Illustrated Moss Flora of Fennoscandia. II. Musci, Nyholm, E. TL-2: NEW.

Ill. Moss Fl. Japan — Illustrated Moss Flora of Japan, Noguchi, A. & I. Iwatsuki TL-2: NEW.

Index Bryol. — Index Bryologicus, Paris, E. G. TL-2: 7328.

Index Bryol. (ed. 2) — Index Bryologicus, editio secunda, Paris, E. G. TL-2: 7238*.

Index Bryol. Suppl. — Index Bryologicus Supplementum, Paris, E. G. TL-2: NEW.

Index Mus. Pl. Crypt. — Index Musei Plantarum Cryptogamarum, Weber, F. & D. M. H. Mohr. TL-2: 16894.

Int. Polarforsch., Deutsch. Exped. — Die internationale Polarforschung 1882-1883. Die Deutschen Expeditionen, Neumayer, G. B. von. TL-2: 6760.

Israel J. Bot. — Israel Journal of Botany. B-P-H: NEW.

J. & Proc. Roy. Soc. New South Wales — Journal and Proceedings of the Royal Society of New South Wales. B-P-H: 454.12.

J. Adelaide Bot. Gard. — Journal of the Adelaide Botanic Gardens. B-P-H: NEW.

J. Bombay Nat. Hist. Soc. — Journal of the Bombay Natural History Society. B-P-H: 459.20.

J. Bot. — Journal of Botany, British and Foreign. B-P-H: 459.22.

J. Bot. (Morot) — Journal de Botanique (Morot). B-P-H: 460.04.

J. Bot. (Schrader) — Journal für die Botanik. B-P-H: 460.06.

J. Bryol. — Journal of Bryology. B-P-H: NEW.

J. Coll. Sci. Imp. Univ. Tokyo — Journal of the College of Science, Imperial Univeristy of Tokyo. B-P-H: 462.17.

J. Fac. Educ. Tottori Univ., Nat. Sci. — Journal of the Faculty of Education, Tottori University, Natural Science. B-P-H: NEW.

J. Hattori Bot. Lab. — Journal of the Hattori Botanical Laboratory. B-P-H: 468.07.
J. Indian Bot. Soc. — Journal of the Indian Botanical Society. B-P-H: 470.04.
J. Jap. Bot. — Journal of Japanese Botany. B-P-H: 470.19.
J. Linn. Soc., Bot. — Journal of the Linnean Society, Botany. B-P-H: 471.16.
J. Malayan Branch Roy. Asiat. Soc. — Journal of the Malayan Branch of the Royal Asiatic Society. B-P-H: 472.08.
J. Mus. Godeffroy — Journal des Museums Godeffroy. B-P-H: 473.24.
J. Proc. Linn. Soc., Bot. — Journal of the Proceedings of the Linnean Society. B-P-H: 477.13.
J. Proc. Linn. Soc., Bot., Suppl. — Journal of the Proceedings of the Linnean Society, Botany, Supplement. B-P-H: NEW.
J. Sci. Arts (London) — Journal of Science and the Arts. B-P-H: 480.06.
J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. — Journal of Science of Hiroshima University, Series B, Division 2 (Botany). B-P-H: 480.13.
J. Shanghai Norm. Univ. — Journal of Shanghai Normal University. B-P-H: NEW.
J. Siam Soc., Nat. Hist. Suppl. — Journal of the Siam Society, Natural History Supplement. B-P-H: 481.15.
J. Taiwan Mus. — Journal of Taiwan Museum. B-P-H: NEW.
J. Wash. Acad. Sci. — Journal of the Washington Academy of Sciences. B-P-H: 484.23.
Jaarb. Kon. Ned. Bot. Ver. — Jaarboek, Verslagen en Mededelingen van de Koninklijke Nederlandse Botanische Vereniging. B-P-H: 485.17.
Jahres-Ber. Naturhist. Vereins Passau — Jahres-Bericht de Naturhistorischen Vereins in Passau. B-P-H: 493.14.
Jahresber. Pollichia — Jahresbericht der Pollichia. B-P-H: 495.07.
Jahresber. Schles. Ges. Vaterl. Cult. — Jahresbericht der Schlesischen Gesellschaft für Vaterländische Cultur. B-P-H: 495.10.
Jap. J. Bot. — Japanese Journal of Botany. B-P-H: 498.13.
Kalikasan — Kalikasan. B-P-H: NEW.
Kew J. Bot. — Hooker's J. Bot. Kew Gard. Misc. B-P-H: 420.27.
Kongel. Norske Vidensk. Selsk. Skr. (Trondheim) — Det K. Norske Videnskabers Selskabs Skrifter. B-P-H: 516.21.
Kongel. Norske Vidensk. Selsk. Skr. [1970+] — Kongelige Norske Videnskabers Selskab Skrifter [1970+]. B-P-H: NEW.
Kongl. Svenska Vetensk. Acad. Handl. — Kongl. Svenska Vetenskaps Akademiens Handlingar. B-P-H: 517.10.
Kongl. Vetensk. Acad. Handl. — Kongl. Vetenskaps Academiens Handlingar. B-P-H: 517.13.
Kosmos (Lvov) — Kosmos (Lvov). B-P-H: 518.22.
Krypt. Gew. Fichtelgeb. — Kryptogamische Gewächse (besonders) des Fichtelgebirg's, Funck, H. C. TL-2: 1919.
Krypt.-Fl. Brandenburg, Laubm. — Kryptogamenflora der Mark Brandenburg, Laubmoose, Warnstorf, C. TL-2: 16773*.
Kryptog. Forsch. — Kryptogmische Forschungen. B-P-H: 520.02.

Kumamoto J. Sci., Sect. 2, Biol. — Kumamoto Journal of Science. Sect. 2. Biology. B-P-H: 521.08.

Kungl. Svenska Vetenskapsakad. Avh. & Naturskyddsärenden — Kungl. Svenska Vetenskapsakademiens Avhandlingar i Naturskyddsärenden. B-P-H: NEW.

Lancashire Cheshire Naturalist — Lancashire and Cheshire naturalist. B-P-H: 523.18.

Latv. Univ. Raksti — Latvijas Universitates Raksti. B-P-H: NEW.

Laubm. Deutschl. — Die Laubmoose Deutschlands, Oesterreichs und der Schweiz, Limpricht, K. G. TL-2: 4540.

Laubm. Fennoskand. — Die Laubmoose Fennoskandias, Brotherus, V. F. TL-2: 814.

Laubm.-Fl. Oesterr.-Ung. — Die Laubmoosflora von Oestrreich-Ungarn, Juratzka, J. TL-2: 3456.

Lav. Bot. — Lavori di Botanica, Instituto dell'Universita di Torino. B-P-H: NEW.

Lazaroa — Lazaroa. B-P-H: NEW.

Leafl. Philipp. Bot. — Leaflets of Philippine Botany. B-P-H: 527.22.

Leafl. W. Bot. — Leaflets of Western Btany. B-P-H: 527.27.

Lejeunia — Lejeunia. B-P-H: 528.22.

Lichens Mosses Mac.Robertson Land — Lichens and Mosses of Mac.Robertson Land, Filson, R. B. TL-2: NEW.

Lilloa — Lilloa. B-P-H: 530.30.

Lindbergia — Lindbergia. B-P-H: NEW.

Linnaea — Linnaea. B-P-H: 532.04.

Listos. Mhi Permi Evr. Severa SSSR — Listostobel'nye Mhi Permi Evropejskogo Severa SSSR, Fefilova, L. A. TL-2: NEW.

Listos. Mhi Yuzhnogo Primor'ya — Listostebel'nye Mhi Yuzhnongo Primor'ya, Bardunov, L. V. & V. Ya. Czerdantzeva. TL-2: NEW.

Lloydia — Lloydia. B-P-H: 533.23.

London J. Bot. — London Journal of Botany. B-P-H: 534.12.

Lyonia — Lyonia. B-P-H: NEW.

Madroño — Madroño. B-P-H: 538.18.

Mag. Encycl. — Magasin Encyclopédique. B-P-H: 539.04.

Magyar Bot. Lapok — Magyar Botanikai Lapok. B-P-H: 542.25.

Magyar Fl. — Magyar Flora, Soó, R. TL-2: NEW.

Man. Mosses N. America — Manual of the Mosses of North America, Lesquereux, C. L. & T. P. James. TL-2: 4421.

Man. Mosses W. Pennsylvania — A Manual of the Mosses of Western Pennsylvania, Jennings, O. E. TL-2: 3330.

Mant. Prim. Fl. Hal. — Mantissa Prima Florae Halensis, Sprengel, K. P. TL-2: 12678.

Manual — A Manual of the Botany of the Northern United States, Gray, A. TL-2: 2124.

Manual (ed. 2) — A Manual of the Botany of the Northern United States, second edition, Gray, A. TL-2: 2124*.

Marion & Prince Edward Islands, Musci — Marion and Prince Edward Islands, Musci, Zinderen Bakker, E. M. von, J. M. Winterbottom & R. A. Dyer. TL-2: NEW.

Meddel. Grønland — Meddelelser om Grønland. B-P-H: 556.20.

Meddel. Grønland, Biosci. — Meddelelser om Grønland, Bioscience. B-P-H: NEW.

Meddeland. Soc. Fauna Fl. Fenn. — Meddelanden af Societas pro Fauna et Flora Fennica. B-P-H: 556.31.

Mélanges Bryol. Lichénol. — Mélanges Bryologiques et Lichénologiques. B-P-H: NEW.

Mém. Acad. Imp. Sci. Saint Pétersbourg — Mémoires de l'Académie Impériale des Sciences de Saint Pétersbourg. B-P-H: 563.21.

Mém. Acad. Sci. Clermont-Ferrand. — Mémoires de l'Academie des Sciences, Belles-Lettres et Arts de Clermont-Ferrand. B-P-H: NEW.

Mem. Amer. Acad. Arts — Memoirs of the American Academy of Arts and Science. B-P-H: 568.12.

Mem. Bot. Surv. South Africa — Memoirs of the Botanical Survey of South Africa. B-P-H: NEW.

Mém. Hist. Nat. Sphaignes — Mémoire pour servir à l'Histoire Naturelle des Sphaignes, Schimper, W. P. TL-2: 10683.

Mem. Mat. Fis. Soc. Ital. Sci. Modena, Pt. Mem. Fis. — Memoria di Matematica e di Fisica della Società Italiana del Scienze residente in Modena, Parte contenente le Memorie de Fisica. B-P-H: 576.12.

Mem. New York Bot. Gard. — Memoirs of The New York Botanical Garden. B-P-H: 578.14.

Mem. Reale Accad. Sci. Torino — Memorie della Reale Accademia delle Scienze di Torino. B-P-H: 580.04.

Mém. Soc. Bot. France — Mémoires de la Société Botanique de France. B-P-H: 582.19.

Mém. Soc. Hist. Nat. Afrique N. — Mémoires de la Société d'Histoire Naturelle de l'Afrique de Nord. B-P-H: 583.25.

Mém. Soc. Linn. Paris — Mémoires de la Société Linnéenne de Paris. B-P-H: 585.03.

Mém. Soc. Phys. Genève — Mémoires de la Société de Physique et d'Histoire Naturelle de Genève. B-P-H: 586.04.

Mém. Soc. Sci. Nat. Cherbourg — Mémoires de la Société des Sciences Naturelles de Cherbourg. B-P-H: 587.12.

Mém. Soc. Sci. Nat. Neuchatel — Mémoires de la Société des Sciences Naturelles de Neuchatel. B-P-H: 587.16.

Mém. Soc. Vaud. Sci. Nat. — Mémoire de la Société Vaudoise des Sciences Naturelles. B-P-H: 588.03.

Mem. Torrey Bot. Club — Memoirs of the Torrey Botanical Club. B-P-H: 588.12.

Memoranda Soc. Fauna Fl. Fennica — Memoranda Societatis pro Fauna et Flora Fennica. B-P-H: 588.31.

Méth. Éprouv. — Méthode Éprouvée, Dubois, F. N. A. TL-2: 1535.

Michigan Bot. — The Michigan Botanist. B-P-H: 592.21.

Micronesica — Micronesica. B-P-H: 593.17.

Minnesota Bot. Stud. — Minnesota Botanical Studies. B-P-H: 596.10.
Misc. Bryol. Lichenol. — Miscellanea Bryologica et Lichenologica. B-P-H: 597.02.
Miss. Sci. Cape Horn, Bot. — Mission Scientifique du Cap Horn. Botanique, Hariot, P. A., P. Petit, J. Müller d'Argovie, E. Bescherelle, C. Massalongo & A. Franchet. TL-2: 2390.
Mitt. Bad. Bot. Vereins — Mitteilungen des Badischen Botanischen Vereins. B-P-H: 601.12.
Mitt. Bayer. Bot. Ges. — Mitteilungen der Bayerischen Botanischen Gesellschaft zur Erforschung der heimischen Flora a. V. B-P-H: 601.17.
Mitt. Inst. Allg. Bot. Hamburg — Mitteilungen aus dem Institut für allgemiene Botanik in Hamburg. B-P-H: 604.20.
Mitt. Naturwiss. Vereins Steiermark — Mitteilungen der Naturwissenschaftlichen Vereins für Steiermark. B-P-H: 607.21.
Mitt. Thüring. Bot. Ges. — Mitteilung der Thüringischen Botanischen Gesellschaft. B-P-H: 610.03.
Monde Pl. — Monde des Plantes. B-P-H: 616.20.
Monogr. Andreaear. Scand. Tent. — Monographiae Andreaearum Scandinaviae Tentamen, Zetterstedt, J. E. & F. J. Bjornstrom. TL-2: 18644.
Monogr. Bot. — Monographiae Botanicae. B-P-H: 617.06.
Monogr. Ptychomniaceae — A monograph of the Ptychomniaceae (Bryopsida), Hattaway, R. A. TL-2: NEW.
Monogr. Syst. Bot. Missouri Bot. Gard. — Monographs in Systematic Botany from the Missouri Botanical Garden. B-P-H: NEW.
Monsunia — Monsunia. B-P-H: NEW.
Monthly Rev. — Monthly Review. B-P-H: 609.24.
Moosfl. Harz. — Moosflora der Harzes, Loeske, L. TL-2: 4938.
Moosstudien — Moosstudien, Lorentz, P. G. TL-2: 4987.
Moscosoa — Moscosoa. B-P-H: NEW.
Moss Fl. N. Amer. — Moss Flora of North America, Grout, A. J. TL-2: 2195.
Moss Fl. Pacific Northwest — Moss Flora of the Pacific Northwest, Lawton, E. TL-2: NEW.
Moss. Dillen. Hist. Musc. — Kritisk Granskning af Mossorna uli Dillenii Historia Muscorum, Lindberg, S. O. TL-2: 4605.
Moss. Hand-lens Microsc. — Mosses with Hand-lens and Microscope, Grout, A. J. TL-2: 2193.
Mosses E. India — Mosses of Eastern India and Adjacent Regions: a monograph, Gangulee, H. C. TL-2: NEW.
Mosses E. N. Amer. — Mosses of Eastern North America, Crum, H. & L. E. Anderson. TL-2: NEW.
Mosses Great Lakes For. (ed. 3) — Mosses of the Great Lakes Forest, third edition, Crum, H. TL-2: NEW.
Mosses N. Amer. — Mosses of North America, Taylor, R. J. & A. E. Leviton (editors). TL-2: NEW.
Mosses S. Australia — Mosses of South Australia, Catcheside, D. G. TL-2: NEW.
Mosses S. Australia — Mosses of Southern Australia, Scott, G. A. M. & I. G. Stone. TL-2: NEW.

Mosses Society Isl. — Mosses of the Society Islands, Whittier, H. O. TL-2: NEW.
Mosses: Utah & West — Mosses: Utah and the West, Flowers, S. TL-2: NEW.
Mous. Normandie — Mousses de Normandie, Brebisson, L. A. de. TL-2: 723.
Muelleria — Muelleria. B-P-H: 621.02.
Musc. France — Muscinées de la France, Boulay, A. J. N. TL-2: 687.
Musc. Trentino — Le Muscinee del Trentino, Venturi, G. TL-2: 16015.
Musci Acrocarpi Bor.-Amer. — Musci Acrocarpi Boreali-Americani, Holzinger, J. M. TL-2: NEW.
Musci Allegh. — Musci Alleghanienses, Sullivant, W. S. TL-2: 13399.
Musci Amer., Brit. N. Amer. — Musci Americani; or, specimens of the mosses collected in British North America, Drummond, T. TL-2: 1532.
Musci Amer., S. States — Musci Americani; or, Specimens of Mosses, Jungermanniae, &c. collected by the Late Thomas Drummond, in the Southern States of North America, Drummond, T. TL-2: NEW.
Musci Appalach. — Musci Appalachiani, Austin, C. F. TL-2: 209.
Musci Bor.-Amer. — Musci Boreali-Americani, Sullivant, W. S. TL-2: 13404.
Musci Bor.-Amer. (ed. 2) — Musci Boreali-Americani, editio secunda, Sullivant, W. S. TL-2: 13404*.
Musci Buitenzorg — Die Musci der Flora von Buitenzorg, Fleischer, M. TL-2: 1803.
Musci Eur. & Amer. Exsic. — Musci Europaei et Americani Exsiccati, Bauer, E. TL-2: NEW.
Musci Eur. Exsic. — Musci Europaei Exsiccati, Bauer, E. TL-2: NEW.
Musci Eur. Nov. — Musci Europaei Novi, Schimper, W. P. TL-2: 10688.
Musci Exot. — Musci Exotici, Hooker, W. J. TL-2: 2990.
Musci Frond. Archip. Ind. Exsic. — Musci Frondosi Archipelagi Indici Exsiccati, Fleischer, M. TL-2: NEW.
Musci Frond. Ined. Archip. Ind. — Musci Frondosi Inediti Archipelagi Indici, Dozy, F. & J. H. Molkenboer. TL-2: 1510.
Musci Ital. — Musci Italici, De Notaris, G. TL-2: 1384.
Musci Neerl. Spec. Exic. — Musci Neerlandici Specimena Exisiccati, Buse, L. H. TL-2: NEW.
Musci Norveg. Bor. — Musci Norvegiae Borealis, Hagen, I. S. TL-2: 2249.
Musci Pyren. — Musci Pyrenaici, Spruce, R. TL-2: NEW.
Musci Scand. — Musci Scandinavici, Lindberg, S. O. TL-2: 4601.
Muscol. Brit. — Muscologia Britannica, Hooker, W. J. & T. Taylor. TL-2: 2989.
Muscol. Brit. (ed. 2) — Muscologia Britannica, second edition, Hooker, W. J. & T. Taylor. TL-2: 2989*.
Muscol. Gall. — Muscologia Gallica, Husnot, P. T. TL-2: 3154.
Muscol. Germ. — Muscologia Germanica, Hübener, J. W. P. TL-2: 3120.
Muscol. Hibern. Spic. — Muscologiae Hibernicae Spicilegium, Turner, D. TL-2: 15363.
Muscol. Recent. — Muscologia Recentiorum, Bridel, S. E. TL-2: 756.
Muscol. Recent. Suppl. — Muscologia Recentiorum Supplementum, Bridel, S. E. TL-2: 756*.
N. Amer. Fl. — North American Flora, Britton, N. L. TL-2: 781.

N. Amer. Musci Perf. — North American Musci Perfecti, Grout, A. J. TL-2: 2191*.

N. Amer. Musci Pleurocarpi — North American Musci Pleurocarpi, Grout, A. J. TL-2: 2191*.

Narr. Exped. China Japan — Narrative of the Expedition of an American Squadron to the China Seas and Japan, Gray, A. et al. TL-2: NEW.

Nat. & Life Southe. Asia — Nature and Life in Southeast Asia. B-P-H: NEW.

Nat. Hist. Azores — Natural History of the Azores, or Western Islands, Godman, F. D. C. TL-2: 2056.

Nat. Hist. Bull. Siam Soc. — Natural History Bulletin of the Siam Society. B-P-H: 628.26.

Nat. Hist. Juan Fernández — The Natural History of Juan Fernández and Easter Island, Skottsberg, C. J. F. TL-2: 12073.

Nat. Hist. Mus. Los Angeles County, Contr. Sci. — Natural History Museum of Los Angeles County, Contributions in Science. B-P-H: NEW.

Nat. Life Southe. Asia — Nature & Life in Southeast Asia. B-P-H: NEW.

Nat. Pflanzenfam. — Die natürlichen Pflanzenfamilien, Engler, A. & K. Prantl. TL-2: 1710.

Nat. Pflanzenfam. (ed. 2) — Die natürlichen Pflanzenfamilien, zweite Auflage, Engler, A. & K. Prantl. TL-2: 1711.

Natl. Acad. Sci. Letters (India) — National Academy Science Letters. B-P-H: NEW.

Naturalist (Hull) — The Naturalist (Hull). B-P-H: NEW.

Naturh. Reise Schwedens — Naturhistorische Reise durch einen Theil Schwedens, Weber, F. & D. M. H. Mohr. TL-2: 16896.

Naturwiss. Untersuch. Sarekgebirges Schwed.-Lappl., Bot. — Naturwissenschaftliche Untersuchungen des Sarekgebirges in Schwedisch-Lappland, Botanik, Hamberg, A. (editor). TL-2: 3334*.

Natuurk. Verh. Holl. Maatsch. Wetensch. Haarlem — Natuurkundige Verhandelingen van de Hollandsche Maatschappy der Wetenschappen te Haarlem. B-P-H: 638.02.

Natuurk. Verh. Kon. Akad. Wetensch. Amsterdam — Natuurkundige Verhandelingen van de Koninklijke Akademie van Wetenschappen, Amsterdam. B-P-H: NEW.

Ned. Kruidk. Arch. — Nederlandsch Kruidkundig Archief. Verslangen en Mededelingen der Nederlandsche Botanische Vereeniging. B-P-H: 640.17.

Nederl. Bladm. — De Nederlandse Bladmossen, Touw, A. & W. V. Rubers. TL-2: NEW.

New Zealand Inst. Bull. — New Zealand Institute, Bulletin. B-P-H: NEW.

New Zealand J. Bot. — New Zealand Journal of Botany. B-P-H: 657.14.

Nihon-Senrui Bunrui — Nihon-Senrui No Bunrui, Iisiba, E. TL-2: NEW.

Nomencl. Bot. — Nomenclator Botanicus, Steudel, E. G. von. TL-2: 13053.

Nomencl. Fl. Danic. — Nomenclator Florae Danicae, Lange, J. M. C. TL-2: 4189.

Not. Sällsk. Fauna Fl. Fenn. Förh. — Notiser ur Sällskapets pro Fauna et Flora Fennica Förhandlingar. B-P-H: 666.05.

Notes Field-Naturalist W. Tropics — Notes of a Field-Naturalist in the Western Tropics, Higgins, H. H. TL-2: NEW.

Notes Roy. Bot. Gard. Edinburgh — Notes from the Royal Botanic Garden, Edinburgh. B-P-H: 668.12.

Notizbl. Bot. Gart. Berlin-Dahlem — Notizblatt des Botanischen Gartens und Museums zu Berlin-Dahlem. B-P-H: 668.21.

Notul. Nat. Acad. Nat. Sci. Philadelphia — Notulae Naturae of the Academy of Natural Sciences of Philadelphia. B-P-H: 669.01.

Nova Acta Acad. Caes. Leop.-Carol. German. Nat. Cur. — Nova Acta Academiae Caesareae Leopoldino-Carolinae Germanicae Naturae Curiosorum. B-P-H: 672.15.

Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. — Nova Acta Physico-medica Academiae Caesareae Leopoldino-Carolinae Naturae Curiosorum Exhibentia Ephemerides sive observationes Historias et Experimenta. B-P-H: 673.05.

Nova Acta Regiae Soc. Sci. Upsal. — Nova Acta Regiae Societatis Scientiarum Upsaliensis. B-P-H: 673.07.

Nova Caledonia, Bot. — Nova Caledonia Forschungen in Neu-Caledonien und auf den Loyalty-Inseln, B. Botanik, Sarasin, C. F. & J. Roux. TL-2: 10288.

Nova Guinea — Nova Guinea, Pulle, A. A. (editor). TL-2: NEW.

Nova Guinea, Bot. — Nova Guinea, Botany. B-P-H: NEW.

Nova Hedwigia — Nova Hedwigia. B-P-H: 673.10.

Novosti Sist. Niz. Rast. — Novosti Sistematiki Nizshikh Rastenii. B-P-H: NEW.

Nuovo Giorn. Bot. Ital. — Nuovo Giornale Botanico Italiano. B-P-H: 676.13.

Nyt Mag. Naturvidensk. — Nyt Magazin for Naturvidenskaberne. B-P-H: 678.07.

Obs. Fl. Hwangshan. — Observationes ad Florulam Hwangshanicum, Anonymous. TL-2: NEW.

Observ. Bot. — Observationes Botanicae, Mohr, D. M. H. TL-2: 6194.

Occas. Pap. Bernice P. Bishop Mus. — Occasional Papers of Bernice P. Bishop Museum. B-P-H: 680.26.

Occas. Pap. Farlow Herb. — Occasional Papers of the Farlow Herbarium of Cryptogamic Botany. B-P-H: NEW.

Oefers. Förh. Finska Vetensk.-Soc. — Oefversigt af Förhandlingar, Finska Vetenskaps-Societeten. B-P-H: 682.25.

Oekon. Fl. Wetterau — Oekonomisch-Technische Flora der Wetterau, Gaertner, P. G., B. Meyer & J. Scherbius. TL-2: 1926.

Oesterr. Bot. Z. — Oesterreichische Botanische Zeitschrift. B-P-H: 683.13.

Öfvers. Förh. Kongl. Svenska Vetensk.-Akad. — Öfversigt af Förhandlingar: Kongl. Svenska Vetenskaps-Akademien. B-P-H: 684.09.

Origin Evol. Div. Pl. & Pl. Comm. — Origin and Evolution of Diversity in Plants and Plant Communities, Hara, H. TL-2: NEW.

Orsis — Orsis. B-P-H: NEW.

Österr. Akad. Wiss., Math.-Naturwiss. Kl., Sitzungsber., Abt. 1, Biol. — Österreische Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Klasse. Sitzungsberichte. Abteilung 1. Biologie. B-P-H: 692.13.

Ottawa Naturalist — Ottawa Naturalist. B-P-H: 694.03.
Palaeobotanist — Palaeobotanist. B-P-H: 695.16.
Palaeontographica, Abt. B, Paläophytol. — Palaeontographica, Abteilung B, Paläophytologie. B-P-H: 695.22.
Paläontol. Abh., Abt. B, Paläobot. — Paläontologische Abhandlungen, Abteilung B, Paläobotanik. B-P-H: 696.02.
Pap. & Proc. Roy. Soc. Tasmania — Papers and Proceedings of the Royal Society of Tasmania. B-P-H: 697.27.
Pesquisas, Bot. — Pesquisas, Botânica. B-P-H: 701.24.
Pflanzenr. — Das Pflanzenreich, Engler, H. G. A. TL-2: 1713.
Pflanzenw. Ost-Afrikas — Die Pflanzenwelt Ost-Afrikas, Engler, A. TL-2: 1708.
Philipp. J. Sci. — Philippine Journal of Science. B-P-H: 706.02.
Philos. Trans. — Philosophical Transactions of the Royal Society of London. B-P-H: 706.29.
Phyta (Allahabad) — Phyta. B-P-H: NEW.
Phytologia — Phytologia. B-P-H: 710.12.
Pl. Crypt. — Plantae Cryptogamicae, Hooker, W. J. TL-2: 2988.
Pl. Itin. Suec. Polar. Coll. — Plantae in Itineribus Suecorum Polaris Collectae Insulae Spetsbergenses, Berggren, S. TL-2: NEW.
Pl. Jungh. — Plantae Junghuhnianae, Miquel, F. A. W. TL-2: 6107.
Pl. Preiss. — Plantae Preissianae, Lehmann, J. G. C. TL-2: 4332.
Pl. Taxon. Phytogeogr. — Plant Taxonomy, Phytogeography and related Subjects, Tan, K. TL-2: NEW.
Portugaliae Acta Biol., Ser. B, Sist. — Portugaliae Acta Biologica. Serie B. Sistematica, Ecologia, Biogeografía e Paleontologia. B-P-H: 716.05.
Práce Brnenské Zákl. Ceskolov. Akad. Ved — Práce Brnenské Základny Ceskoslovenské Akademie Ved. B-P-H: 717.21.
Prace Komis. Biol. — Prace Komisji Biologiznej. B-P-H: 717.23.
Preslia — Preslia. B-P-H: 720.16.
Proc. Amer. Acad. Arts — Proceedings of the American Academy of Arts and Sciences. B-P-H: 724.20.
Proc. Birmingham Nat. Hist. Soc. — Proceedings of the Birmingham Natural History Society. B-P-H: 727.03.
Proc. Bryol. Soc. Japan — Proceedings of the Bryological Society of Japan. B-P-H: NEW.
Proc. Kon. Ned. Akad. Wetensch., Ser. C, Biol. — Proceedings of the Koninklijke Nederlandse Akademie van Wetenschappen, Series C: Biological and Medical Sciences. B-P-H: NEW.
Proc. Linn. Soc. New South Wales — Proceedings of the Linnean Society of New South Wales. B-P-H: 731.21.
Proc. Roy. Soc. Queensland — Proceedings of the Royal Society of Queensland. B-P-H: 736.08.
Proc. Wash. Acad. Sci. — Proceedings of the Washington Academy of Sciences. B-P-H: 738.11.
Prodr. Aethéogam. — Prodrome des cinquième et sixième Familles de l'Aethéogamie, Palisot de Beauvois, A. M. F. J. TL-2: 7213.

Prodr. Fl. Bat. — Prodromus Florae Batavae, Bosch, R. B. van den. TL-2: 679.

Prodr. Fl. Bryol. Madagascar — Prodrome de la Flore Bryologique de Madagascar des Mascareignes et des Comores, Renauld, F. TL-2: 8993.

Prodr. Fl. Bryol. Surinam. — Prodromus Florae Bryologicae Surinamensis, Dozy, F. & J. H. Molkenboer. TL-2: 6213.

Prodr. Fl. Starg. Suppl. — Prodromus Florae Stargardiensis Supplementum, Schultz, C. F. TL-2: 11266*.

Publ. Comm. Geogr. Pay Natal. Debrecen — **. B-P-H: NEW.

Publ. Univ. Santo Domingo — Publicaciones de la Unviersidad de Santo Domingo. B-P-H: 748.08.

Rec. Bot. Surv. India — Records of the Botanical Survey of India. B-P-H: 757.04.

Recueil Observ. Jungerm. — Recueil d'Observations sur les Jungermanniacées, Dumortier, B. C. J. TL-2: 1565.

Recueil Publ. Soc. Havraise Études Diverses — Recueil des Publications de la Société Havraise d'Études Diverses. B-P-H: 759.10.

Regnum Veg. — Regnum Vegetabile. B-P-H: 760.25.

Reise Novara — Reise der österreichischen Fregatte Novara um die Erde, Fenzl, E. TL-2: 1764.

Reise Ostafr., Syst. Arbeit. — Reise in Ostafrika, Systematische Arbeiten, Voeltzkow, A. TL-2: 16285.

Reise Sibir. — Reise in den äussersten Norden und Osten Sibiriens, Middendorff, A. T. von. TL-2: 5978.

Rep. Brit. Bryol. Soc. — Report of the British Bryological Society. B-P-H: 763.09.

Rep. Canad. Arctic Exped. — Report of the Canadian Arctic Expedition 1913-1918. B-P-H: NEW.

Rep. Challenger, Bot. — Report on the Scientific Results of the Voyage of H.M.S. Challenger, Hemsley, W. B. TL-2: 2628.

Rep. Cryptog. Papua New Guinea — Reports of the Cryptogams in Papua New Guinea, Otani, Y. (editor). TL-2: NEW.

Rep. Second Norweg. Arctic Exped. "Fram" 1898-1902, Mosses — Report of the Second Norwegian Arctic Expedition in the "Fram" 1898-1902, Mosses, Bryhn, N. TL-2: 12007*.

Repert. Spec. Nov. Regni Veg. — Repertorium Specierum Novarum Regni Vegetabilis. B-P-H: 772.20.

Results Norweg. Sci. Exped. Tristan da Cunha — Results of the Norwegian Scientific Expedition to Tristan de Cunha, Christophersen, E. (editor). TL-2: NEW B-P-H: NEW.

Resumenes, I Congr. Latinoamer. — Resumenes, I Congreso Latinoamerico, V Mexicano de Botánica. B-P-H: NEW.

Rev. Bot. Bull. Mens. — Revue de Botanique, Bulletin Mensuel. B-P-H: 778.26.

Rev. Bryol. — Revue Bryologique. B-P-H: 779.03. The world's oldest bryological journal began publication in 1874 with the title Revue Bryologique. Through the years the title changed several times, and we have treated these titles separately, rather than lumping all under Revue Bryologique et Lichénologique as B-P-H did.

Rev. Bryol. Lichénol. — Revue Bryologique et Lichénologique. B-P-H: 779.05.

Rev. Bryol., n.s. — Revue Bryologique, nouvelle série. B-P-H: NEW.
Rev. Gén. Bot. — Revue Générale de Botanique. B-P-H: 780.31.
Rev. Roumaine Biol., Sér. Biol. Vég. — Revue Roumaine de Biologie, Série de Biologie Végétale. B-P-H: NEW.
Revis. Gen. Pl. — Revisio Generum Plantarum, Kuntze, C. E. O. TL-2: 4021.
Revis. Grimm. Scand. — Revisio Grimmiearum Scandinaviae, Zetterstedt, J. E. TL-2: 18646.
Revista Chilena Hist. Nat. — Revista Chilena de Historia Natural. B-P-H: 790.05.
Revista Mus. Argent. Ci. Nat. "Bernardino Rivadavia," Ci. Nat., Bot. — Revista del Museo Argentino de Ciencias Naturales "Bernardino Rivadavia" e Instituto Nacional de Investigación de las Ciencias Naturales, Botánica. B-P-H: NEW.
Revista Sudamer. Bot. — Revista Sudamericana de Botánica. B-P-H: 795.21.
Rhodora — Rhodora. B-P-H: 799.17.
Rivièra Sci. — Rivièra Scientifique. B-P-H: 801.7.
Rozpr. Ceské Akad. Ved, Tr. 2, Vedy Mat. Prír. — Rozpravy Ceské Akademie ved a Umemí. Trida 2. Vedy Matematické, Prírodni. B-P-H: 805.04.
S. African J. Sci. — South African Journal of Science. B-P-H: 807.28.
S. Tibet — Southern Tibet, Hedin, S. TL-2: NEW.
Samml. Deut. Laubm. — Sammlung Deutscher Laubmoose, Crome, G. E. W. TL-2: 1279.
Sborn. Klubu Prír. v Brne — Sborník Klubu Prírodovedeckého v Brne. B-P-H: 814.05.
Schriften Königl. Phys.-Ökon. Ges. Königsberg — Schriften der Königlichen Physikalisch-Ökonomischen Gesellschaft zu Königsberg. B-P-H: 819.12.
Schriften Naturf. Ges. Danzig — Schriften der Naturforschenden Gesellschaft in Danzig. B-P-H: 819.17.
Sci. Rep. Kagoshima Univ. — Science Reports of the Kagoshima University. B-P-H: 827.08.
Sitzungsber. Kaiserl. Akad. Wiss. Math.-Naturwiss. Cl. — Sitzungsberichte der Kaiserlichen Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Classe. B-P-H: 840.10.
Sitzungsber. Naturf. Ges. Leipzig — Sitzungsberichte der Naturforschenden Gesellschaft zu Leipzig. B-P-H: 841.08.
Sixth Meet. C. & E. Eur. Bryol. Work. Group, Abstr. — Sixth Meeting of the Central and East European Bryological Working Group. Abstracts., Herben, T. TL-2: NEW.
Skand. Bladmossfl. — Skandinavisk Bladmossflora, Kindberg, N. C. TL-2: 3653.
Skr. Vidensk.-Selsk. Christiana, Math.-Naturvidensk. Kl. — Skrifter udgivne af Videnskabs-Selskabet i Christiana. Mathematisk-naturvidenskabelig Klass. B-P-H: 843.13.
Smithsonian Contr. Bot. — Smithsonian Contributions to Botany. B-P-H: NEW.
Smithsonian Misc. Collect. — Smithsonian Miscellaneous Collections. B-P-H: 844.08.
Sp. Musc. Frond. — Species Muscorum Frondosorum, Hedwig, J. TL-2: 2532.

Sp. Musc. Frond., Suppl. 1 — Species Muscorum Frondosorum, Supplementum Primum, Schwägrichen, C. F. TL-2: 11427*.
Sp. Musc. Frond., Suppl. 2 — Species Muscorum Frondosorum, Supplementum Secundum, Schwägrichen, C. F. TL-2: 11426*.
Sp. Musc. Frond., Suppl. 3 — Species Muscorum Frondosorum, Supplementum Tertium, Schwägrichen, C. F. TL-2: 11427*.
Sp. Pl. — Species Plantarum, Linnaeus, C. TL-2: 4769.
Sphagnac. Eur. — The Sphagnaceae or Peat-mosses of Europe and North America, Braithwaite, R. TL-2: 701.
Spic. Fl. Germ. — Spicilegium Florae Germanicae, Schrader, H. A. TL-2: 11080.
Spisy Prír. Fak Masarykovy Univ. — Spisy Vydávané Prírodovedeckou Fakultou Masarykovy University. B-P-H: 852.17.
Spisy Prír. Fak. Univ. v Brne — Spisy Prírodovedecké Fakulty University v Brne. B-P-H: 853.02.
Stud. Cryptog. S. Chile — Studies on Cryptogams in Southern Chile, Inoue, H. (editor). TL-2: NEW.
Stud. Cryptog. S. Peru — Studies on Cryptogams in Southern Peru, Inoue, H. (editor). TL-2: NEW.
Stud. Handb. Brit. Mosses — The Student's Handbook of British Mosses, Dixon, H. N. TL-2: 1480.
Stud. Handb. Brit. Mosses (ed. 3) — Student's Handbook of British Mosses, third edition, Dixon, H. N. TL-2: 1480*.
Stud. Morph. Syst. Laubm. — Studien zur Vergleichenden Morphologie und Phylogenetischen Systematik der Laubmoose, Loeske, L. TL-2: 4940.
Summa Veg. Scand. — Summa Vegetabilium Scandinaviae, Fries, E. M. TL-2: 1883.
Sunyatsenia — Sunyatsenia. B-P-H: 859.25.
Suppl. App. Parry's Voy. — Supplement to the Appendix of Captain Parry's Voyage, Parry, W. E. TL-2: 7410.
Svensk Bot. Tidskr. — Svensk Botanisk Tidskrift. B-P-H: 861.01.
Syll. Pl. Nov. — Sylloge Plantarum Novarum, Hornschuch, C. F. TL-2: 3053 B-P-H: 862.15.
Syllab. Musc. — Syllabus Muscorum in Italia, De Notaris, G. TL-2: 1371.
Symb. Antill. — Symbolae Antillarum, Urban, I. TL-2: 15687.
Symb. Sin. — Symbolae Sinicae, Handel-Mazzeti, H. F. v. TL-2: 2364.
Syn. Musc. Eur. — Synopsis Muscorum Europaeorum, Schimper, W. P. TL-2: 10685.
Syn. Musc. Eur. (ed. 2) — Synopsis Muscorum Europaeorum, editio secunda, Schimper, W. P. TL-2: 10685*.
Syn. Musc. Frond. — Synopsis Muscorum Frondosorum, Müller, C. A. E. TL-2: 6496.
Syn. Pl. — Synopsis Plantarum, Kunth, C. S. TL-2: 3998.
Syst. Arr. Brit. Pl. (ed. 4) — A Systematic Arrangment of British Plants, fourth edition, Withering, W. TL-2: 18081.
Syst. Bot. — Systematic Botany. B-P-H: NEW.

Syst. Stud. Fissidens — Systematic Studies on Fissidens (Musci), Bruggeman-Nannenga, M. A. TL-2: NEW.
Syst. Veg. Fl. Peruv. Chil. — Systema Vegetabilium Florae Peruvianae et Chilensis, Ruiz, H. & J. A. Pavon. TL-2: 9772.
Syst. Verz. — Systematisches Verzeichniss der im indischen Archipel, Zollinger, H. TL-2: 18719.
Syst. Verz. — Systematisches Verzeichniss der von H. Zollinger in den Jahren 1842-1844, Mortizi, A. TL-2: 6339.
Syst. Verz. — Systematisches Verzeichnis, Bernhardi, J. J. TL-2: 478.
Tab. Calyptr. Operc. — Tabula exhibens Calyptratarum Operculatarum, Weber, F. TL-2: 16900.
Taiwania — Taiwania. B-P-H: NEW.
Taxon — Taxon. B-P-H: 867.21.
Taxon. Indian Mosses — Taxonomy of Indian Mosses, Chopra, R. TL-2: NEW.
Thes. Cap. — Thesaurus Capensis, Harvey, W. H. TL-2: 2447.
Trans. & Proc. New Zealand Inst. — Transactions and Proceedings of the New Zealand Institute. B-P-H: 888.13.
Trans. & Proc. Roy. Soc. Victoria — Transactions of Proceedings of the Royal Society of Victoria. B-P-H: 888.25.
Trans. Acad. Sci. St. Louis — Transactions of the Academy of Science of St. Louis. B-P-H: 879.19.
Trans. Amer. Philos. Soc. — Transactions of the American Philosophical Society. B-P-H: 880.09.
Trans. Brit. Bryol. Soc. — Transactions of the British Bryological Society. B-P-H: 881.15.
Trans. Illinois State Acad. Sci. — Transactions of the Illinois State Academy of Science. B-P-H: 884.02.
Trans. Linn. Soc. London — Transactions of the Linnean Society of London. B-P-H: 885.08.
Trans. Linn. Soc. London, Bot. — Transactions of the Linnean Society of London, Botany. B-P-H: 885.09.
Trans. Nat. Hist. Soc. Taiwan — Transactions of the Natural History Society of Taiwan. B-P-H: 887.01.
Trans. Roy. Soc. New Zealand, Bot. — Transactions of the Royal Society of New Zealand, Botany. B-P-H: 890.02.
Trans. Roy. Soc. South Africa — Transactions of the Royal Society of South Africa. B-P-H: 890.04.
Transecta Bot. Patagonia Austral - Transecta Botánica de la Patagonia Austral, O. Boelcke, D. M. Moore & F. A. Roig. TL-2: NEW.
Trav. Bryol. [Rev. Bryol. Lichénol.] — Travaux Bryologiques dediés à la Mémoire de Pierre-Tranquille Husnot. B-P-H: NEW.
Trav. Cryptog. Ded. L. Mangin — Travaux Cryptogamiques dediés à Louis Mangin, Anonymous. TL-2: NEW.
Tromsø Mus. Aarsh. — Tromsø Museums Aarshefter. B-P-H: 896.20.
Trop. Bryol. — Tropical Bryology. B-P-H: NEW.

Trudy Akad. Nauk SSSR, Ordena Trud. Krasn. Geol. Inst. — Trudy Akaemija Nauk SSSR, Ordena Trudovogo Krasnogo Geolozineskiej Institut. B-P-H: NEW.

Trudy Arktic. Antarktic. Naucno-Issl. Inst. — Trudy Arkticheskogo i Antarkticheskogo Nauchno-Issledovatel'skogo Institutaaa. B-P-H: NEW.

Trudy Bot. Muz. Imp. Akad. Nauk — Trudy Botanicheskago Muzeja Imperatorskoj Akademii Nauk. B-P-H: 902.14.

Trudy Dal'nevost. Fil. Akad. Nauk SSSR, Ser. Bot. — Trudy Dal'nevostochnogo Filiala Akademii Nauk SSSR, Serija Botanicheskaja. B-P-H: 904.03.

Trudy Geol. Inst. Akad. Nauk SSSR — Trudy Geologicheskogo Instituta, Akademiya Nauk SSSR. B-P-H: NEW.

Trudy Vsesojuzn. Nauchno-Issl. Geol. Inst. — Trudy Vsesojuznogo Nauchno-Issledovatel'skogo Geologicheskogo Instituta. B-P-H: NEW.

Trudy Vsesojuzn. Nauchno-Issl. Geol. Razved. Inst. — Trudy Vsesojuznogo Nauchno-Issledovatel'skogo Geologo Razvedochnogo Instituta. B-P-H: NEW.

U.S. Expl. Exped., Musci — United States Exploring Expedition, Musci, Sullivant, W. S. TL-2: 13407.

U.S. Geol. Surv. Prof. Pap. — U.S. Geological Survey Professional Papers. B-P-H: NEW.

Ueber. Mecklenb. Moose — Uebersicht der Mecklenburgischen Moose, Blandow, O. C. TL-2: 554.

Ukrajins'k. Bot. Zhurn. — Ukrajins'kyj Botanichnyj Zhurnal. B-P-H: 932.03.

Univ. Calif. Publ. Bot. — University of California Publications in Botany. B-P-H: 934.21.

Univ. Mus. Univ. Tokyo Bull. — University Museum, Univeristy of Tokyo, Bulletin. B-P-H: NEW.

Utkast Eur. Bladmoss. — Utkast till en Naturlig Gruppering af Europas Bladmossor, Lindberg, S. O. TL-2: 4600.

Verh. Bot. Vereins Prov. Brandenburg — Verhandlungen des Botanischen Vereins für die Provinz Brandenburg und die angrenzenden Länder. B-P-H: 949.22.

Verh. K.K. Zool.-Bot. Ges. Wien — Verhandlungen der Kaiserlich-Königlichen Zoologisch-Botanischen Gesellschaft in Wien. B-P-H: 952.01.

Verh. Zool.-Bot. Ges. Wien — Verhandlungen der Zoologisch-Botanischen Gesellschaft in Wien. B-P-H: 956.05.

Veröff. Geobot. Inst. Rübel Zürich — Veröffentlichungen des Geobotanischen Institutes Rübel in Zürich. B-P-H: 957.17.

Vidensk. Meddel. Dansk Naturhist. Foren. Kjøbenhavn — Videnskabelige Meddelelser fra Dansk Naturhistorisk Forening i Kjøbenhavn. B-P-H: 964.12.

Webbia — Webbia. B-P-H: 972.04.

Westfal. Laubm. — Westfalens Laubmoose, Müller, H. L. H. TL-2: NEW.

Willdenowia — Willdenowia. B-P-H: 975.09.

Wiss. Erg. Deut. Zentr.-Afr. Exped., Bot. — Wissenschaftliche Ergebnisse der Deutschen Zentral-Afrika-Expedition 1907-1908, Botanik, Mildbraed, G. W. J. TL-2: 6008.

Wiss. Erb. Schwed. Südpolar-Exp. — Wissenschaftliche Ergebnisse der Schwedischen Südpolar-Expedition 1901-1903. B-P-H: NEW.

Yushania — Yushania. B-P-H: NEW.

Z. Naturwiss. Ges. Harz. — Zeitschrift des Naturwissenschaftlichen Vereins des Harzes in Wernigerode. B-P-H: NEW.

Zhong Guo Zhi Wu Hua Shi — Zhong Guo Zhi Wu Hua Shi [Fossil Plants of China], Anonymous. TL-2: NEW.

Zhumulangma Feng Diqu Kexue Kaocha Baogao — Zhumulangma Feng Diqu Kexue Kaocha Baogao [Report on Scientific Expedition of Qomolongma Region], Anonymous. TL-2: NEW.

Zprávy Kommis. Prir. Prozk. Moravi — Zprávy Kommisse pro Prirod. Prozkoumáni Moravi. B-P-H: NEW.

Zhurn. Inst. Bot. Vseukrajins'k. Akad. Nauk — Zhurnal Instytuto Botaniky Vseukrajins'koji Akademiji Nauk. B-P-H: 1002.05.